COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY

An International Journal

EDITOR: G. A. KERKUT (Southampton)

Author and Subject Indexes

Volumes 89-91 Parts A, B and C, 1988



PERGAMON PRESS

OXFORD · NEW YORK
BEIJING · FRANKFURT · SÃO PAULO · SYDNEY · TOKYO · TORONTO

Comparative Biochemistry and Physiology

Editor

Professor G. A. KERKUT, Department of Physiology and Biochemistry, University of Southampton, Southampton SO9 3TU, England (Executive Editor) (Tel: 0703-595000)

Members of the Honorary Editorial Advisory Board

T. H. BULLOCK (La Jolla) C. MANWELL (Adelaide) C. B. COWEY (Guelph) H. S. MASON (Portland) R. Fänge (Göteborg) C. L. PROSSER (Urbana) E. FLOREY (Konstanz) J. ROCHE (Paris) W. S. HOAR (Vancouver) B. T. SCHEER (Santa Barbara)

H. KINOSITA (Saitama) C. A. VILLEE (Massachusetts)

E. Kreps (Leningrad) G. WALD (Harvard) O. LOWENSTEIN (Birmingham) J. H. WELSH (Maine)

Publishing, Subscription and Advertising Offices: Pergamon Press plc, Headington Hill Hall, Oxford OX3 0BW, England (Tel: 0865-64881).

North America: Pergamon Press Inc., Maxwell House, Fairview Park, Elmsford, NY 10523, USA.

Annual Subscription Rates 1989 (including postage and insurance)

Annual institutional subscription rate (1989): combined subscription, DM 5770.00. Part A, Comparative Physiology DM 2460.00; Part B, Comparative Biochemistry DM 2460.00; Part C, Comparative Pharmacology and Toxicology DM 1490.00.

2 year institutional rate (1989/90): combined subscription, DM 10963.00. Part A, DM 4674.00; Part B, DM 4674.00; Part C, DM 2831.00.

Personal subscription rate for those whose library subscribes at the regular rate (1989): combined subscription, DM 456.00. Part A, Comparative Physiology DM 214.00; Part B, Comparative Biochemistry DM 214.00; Part C, Comparative Pharmacology and Toxicology DM 171.00. Parts A and B: Three volumes of each part per year, four issues per volume. Part C: Three volumes per year, two issues per volume. Prices are subject to change without notice.

Microform Subscriptions and Back Issues

Back issues of all previously published volumes are available direct from Pergamon Press. Back issues of Pergamon journals in microform can be obtained from: UMI, 300 North Zeeb Road, Ann Arbor, MI 48106, USA.

Copyright © 1989 Pergamon Press plc

It is a condition of publication that manuscripts submitted to this journal have not been published and will not be simultaneously submitted or published elsewhere. By submitting a manuscript, the authors agree that the copyright for their article is transferred to the publisher if and when the article is accepted for publication. However, assignment of copyright is not required from authors who work for organizations which do not permit such assignment. The copyright covers the exclusive rights to reproduce and distribute the article, including reprints, photographic reproductions, microform or any other reproductions of similar nature and translations. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, electrostatic, magnetic tape, mechanical, photocopying, recording or otherwise, without permission in writing from the copyright holder.

Photocopying information for users in the USA. The Item-Fee Code for this publication indicates that authorization to photocopy items for internal or personal use is granted by the copyright holder for libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service provided the stated fee for copying beyond that permitted by Section 107 or 108 of the United States Copyright Law is paid. The appropriate remittance of \$3.00 per copy per article is paid directly to the Copyright Clearance Center Inc., 27 Congress Street, Salem, MA 01970.

Permission for other use. The copyright owner's consent does not extend to copying for general distribution, for promotion, for creating new works, or for resale. Specific written permission must be obtained from the publisher for such copying.

The Item-Fee Code for this publication is: 0305-0491/89 \$3.00 + 0.00

AUTHOR INDEX

Volumes 89-91 A, B and C inclusive, 1988

volumes 69-91 A, B and C Inclusive, 1966		
Abbass, P. J. 89B, 15	Alagon, A. C. 89B, 153	55
Abdalla, O. M. 90A, 237	Al-Ali, A. K. 89B, 35,	Ankov, V. K. 90A, 515
Abdel-Aal, Y. A. I. 90B,	335	Anson, J. F. 89B, 43
117	Alayash, A. I. 90A, 229	Aoki, T. 90C, 391
Abernethy, C. S. 91C,	Albert, P. 91C, 443	Aoki, Y. 91C, 487
431	Albrechtsen, S. 90A, 651	Aoyagi, Y. 89A, 433; 91A,
Abou-Donia, M. B. 91C,	Alejandre, M. J. 90B, 767	765
293	Alemany, J. 91C, 443	Aoyama, M. 90C, 361
Abraham, M. 91B, 771	Al-Husayni, H. 89B, 335	Aprille, J. R. 91B, 11
Abrams, V. A. M. 90B,	Ali, B. H. 90A, 225	ApSimon, J. W. 90B, 25
243	Ali, M. 90B, 167	Arai, K-i. 90B, 795, 803
Ackman, R. G. 90B, 875	Al-Khalifa, A. S. 91B,563	Arai, S. 89A, 437
Acton, A. B. 89C, 395	Almar, M. M. 89B, 471	Aransas, T. 91C, 419
Adams, M. E. 90A, 151	Altringham, J. D. 90B,	Araujo, L. S. 91B, 279
Adams, P. C. 89B, 355;	547	Arieli, R. 91A, 221
90B, 837	Alvear, M. 90B, 671	Arieli, Y. 90A, 497; 91A,
Aelvoet, I. 90A, 693	Amat, C. 91A, 367	165
Afonso, A. M. M. 91B,	Ambrose, S. J. 89A, 79	Arilla, E. 89A, 237
111	Anbe, H. 89B, 147	Arillo, A. 91B, 97
Aguilar, M. B. 91B, 345	Andersen, P. M. 90A, 687	Ariyoshi, M. 91C, 241
Ahearn, G. A. 90A, 627;	Andersen, R. A. 90B, 59;	Ariyoshi, Y. 90C, 347;
91A, 779	91c, 377, 553	91C, 549
Ahmad, S. 90C, 423; 91C,	Anderson, R. R. 89A, 401	Arme, C. 91A, 203
469	Anderson, R. S. 91C, 575	Armentano, L. E. 91B, 339
Aiello, R. J. 91B, 339	Anderson, S. E. 90A, 551	Arnesen, S. J. 91C, 259
Akagawa, M. 89C, 327	Andersson, R. G. G. 91C,	Arpagaus, M. 90B, 29
Akasha, M. A. 89A, 401	513	Arrio-Dupont, 89B, 251
Akasu, T. 91C, 241	Andoh, T. 91B, 365, 551	Arshavsky, Yu I. 91C, 199
Akiba, Y. 91C, 483	Andrews, P. L. R. 89C,	Arvanov, V. L. 90C, 29
Akino, T. 89B, 179; 91B,	343, 349	Ary, T. 90C, 325
503	Andrews, R. V. 89C, 113	Asami, K. 90B, 69
Al-Abidin, N. Z. 90B, 83	3Anitole, K. G. 90C, 47,	Asotra, S. 90B, 885

Astancolle, S. 89B, 137	Barham, W. T. 91A, 241	Bechtel, P. J. 91A, 815
Atanassov, C. L. 89B,	Barker, W. C. 89B, 433	Beck, M. M. 89A, 475
737, 743	Barnekow, A. 91B, 125	Bedoya, M. P. 90C, 61
Atnip, K. D. 90A, 475	Barnes, W. S. 89A, 295	Beenakkers, A. M. Th.
Audsley, N. 90A, 643	Barnett, D. 90B, 141	91A, 653
Augenstein, U. 91B, 171,	Barrabee, E. B. 89B, 275	Beis, A. 89B, 91
179	Barre, H. 90B, 209	Belaiche, D. 91B, 777
Avenet, P. 90A, 681	Barrio, J-P. 90C, 179	Beleslin, B. 89A, 67, 187
Avery, C. 89A, 579	Barry, B. 91A, 189	Belfiore, A. 89B, 69
Avery, T. B. 91A, 135	Bartlett, C. 91B, 505	Belknap, R. W. 89C, 113
Avinc, A. 91A, 581	Bartosz, G. 91B, 617	Bellelli, A. 90B, 585;
Awad-Elkarim, A. 91B, 26	7Bartrons, R. 90B, 453	91A, 445
Ayrapetyan, S. N. 89A,	Baruffaldi, A. 90B, 285	Bemova, S. 89BB, 343
179; 90C, 29	Basaglia, F. 89B, 731	Bender, K. 89B, 483
	Basch, P. F. 90B, 389;	Beneke, T. W. 89C, 133;
Back, J. F. 91B, 39	91C, 565	90C, 373
Backus, R. C. 90A, 481;	Basova, N. 89A, 317	Benitez, L. V. 89A, 11
91A, 635	Bastos, V. L. F. da C.	Benson, A. A. 89C, 311
Badia, P. 91A, 71	91C, 327	Bentz, I. 89A, 575
Baehrecke, E. H. 89B,	Bastrop, R. 90B, 891	Berent, M. D. 91C, 229
317	Batel, R. 90C, 435	Beress, L. 89B, 305
Baert, JL. 89C, 321	Batlle, A. M. del C. 91B,	Berglind, R. 90C, 123
Baguet, F. 89C, 159	279, 285	Bergstrom, G. 91B, 729
Bahjou, A. 89B, 233	Bauchau, A. 90B, 215	Bernard, A. 91B, 691
Baker, C. M. A. 89B,	Baudinette, R. V. 91A,	Berner, N. J. 90A, 265
441, 453	543	Bernues, J. 89C, 191
Baksi, S. M. 91C, 355	Baudys, M. 89B, 385	Bero, A. S. 90B, 243
Baldus, T. J. 89A, 141;	Bauman, W. A. 91A, 179	Berrill, M. 90A, 405
89C, 403	Baumstark, J. S. 90B, 81	Bertrand, L. 91B, 763
Baldwin, J. 89B, 27	Bauw, G. 90B, 751	Bessonov, B. I. 89A, 1
Balm, P. 89B, 55	Baxter, R. C. 91B, 229	Bethlenfalvay, N. C. 89A,
Bandholtz, J. 89A, 93	Bayliss, D. 90A, 303	113, 119
Banet, M. 89A, 137	Bazulic, D. 91C, 409	Bhathena, S. J. 89A, 371
Barber, B. 89C, 369	Beas-Zarate, C. 89B, 173	Bianchini, A. 90A, 201,
Barber, B. J. 91A, 603	Beaunez, P. 89B, 227	315
Barbon, P. G. 90B, 53	Bechara, E. J. H. 91B,143	Bidart, J. 90B, 385

Biddle, F. G. 89B, 427	Borgatti, A. R. 90B, 41	90B, 721
Bie, P. 90A, 777	Borgese, T. A. 91B, 663	Broyles, R. H. 91B, 755
Bierkens, J. 91A, 339	Boromthanarat, S. 89B, 51	Bruch, R. C. 91B, 535
Bigalke, T. 89B, 171	Botev, B. A. 89B, 737	Brunori, M. 90B, 585;
Bignetti, E. 90B, 1	Boukla, A. 89B, 91	91A, 445
Bikfalvi, A. 89B, 395	Boulenguer, P. 89C, 321	Brunstrom, B. 91C, 507
Bilhari, N. 90C, 435	Bouquet, Y. 90B, 751	Bryan, T. E. 89A, 415,
Binder, A. 89B, 305	Bourguet, J. 90A, 669	511, 531
Bindokas, V. P. 90A, 151	Bourne, G. B. 89A, 405	Bryden, W. L. 91A, 773
Bissoli, R. 89C, 241	Bowen, S. M. 90C, 423	Bubenik, G. A. 90A, 309
Black, B. L. 90A, 379	Boycott, B. B. 91C, 25	Buchanan, J. A. 89A, 425
Blair, D. G. R. 89B, 647	Bozinovic, F. 91A, 195	Budziejewska, A. 91A, 269
Blake, P. A. 90B, 869	Brackenbury, J. H. 90A,	Bulfield, G. 90B, 221
Blank, J. L. 91A, 535	409	Bundy, D. A. P. 90C, 295,
Blasco, E. 90A, 135	Bradley, A. J. 91C, 343	451
Blomquist, G. J. 90C, 42	3Bradley, E. L. 89A, 669	Burford, M. A. 91B, 159
Blum, M. S. 91B, 581	Bradshaw, S. D. 89A, 79	Burke, R. D. 90B, 885
Bly, J. E. 90A, 103;	Brady, U. E. 89C, 299	Burlando, B. 91B, 97
91A, 481	Braum, E. 80B, 7	Burley, R. W. 91B, 39
Bobak, P. 90B, 159; 91B,	Breer, H. 90C, 275	Burnell, A. M. 90C, 215
697	Brenner, R. R. 89B, 465;	Burnett, J. W. 91C, 79
Boda, K. 91A, 689	90B, 235	Burns, E. R. 89B, 43
Bodar, C. W. M. 90C,	Brezina, V. 91C, 219	Burns, J. M. 90A, 449;
335, 341	Bridges, C. R. 89A, 661;	91A, 621
Boersma, A. 91B, 497	90A, 31	Buron, M. I. 91A, 693
Boese, B. L. 89A, 257	Briere, N. 91B, 763	Burton, D. 90C, 263
Bogdanowicz, C. 90A, 425	Brighenti, L. 90B, 285	Burton, R. F. 90A, 11
Boge, G. 91A, 9	Brogdon, W. G. 90C, 145	Busch, C. 90A, 141
Bokisch, A. J. 89C, 121	Brown, K. M. 90C, 47, 55	Buschges, A. 91A, 769
Bolanos, A. 90C, 203	Brown, P. S. 91A, 189,	Busconi, L. 91B, 473
Boldyrev, A. A. 89B,	715	Butler, C. L. 90C, 55
197, 245	Brown, R. D. 89A, 279	Butler, D. G. 89A, 343
Bollands, A. D. 89C, 127	Brown, S. A. 91B, 541	Butler, S. M. 91B, 25
Bonaventura, J. 90A, 229	Brown, S. C. 91A, 189,	Butsuk, S. V. 89A, 1
Bone, L. W. 91C, 385	715	Buttle, J. 89B, 15
Booth, D. T. 90A, 445	Brown-Peterson, N. J.	

Caamano, G. J. 91B, 1	Cau, A. 91A, 445	Clauss, W. 90A, 583
Caffrey, J. M. Jr. 91C,	Cavaggioni, A. 90B, 1	Clay, L. P. 90A, 627
301	Cemerikic, D. 89A, 67	Cleeve, H. J. W. 89B, 709
Cain, G. D. 91B, 51, 59	Chadwick, E. 89A, 113,	Clem, L. W. 90A, 103;
Cala, P. M. 90A, 551	119	91A, 481
Callec, J. J. 91A, 797	Chamberlin, M. 90A, 643	Clemens, E. T. 91A, 1
Callegarini, C. 89B, 731	Chang, E. S. 90B, 809	Clerbaux, Th. 89A, 553
Calton, G. J. 91C, 79	Chapelle, S. 89C, 311	Climent, F. 90B, 739
Calvin, M-O. 89B, 257	Chaplin, S. B. 90C, 231	Cobb, J. L. S. 91A, 821;
Canguilhem, B. 89A, 575	Charnley, A. K. 90C, 403	91C, 151
Capriglione, T. 89B, 1	Chaudhuri, J. 91C, 307	Cochran, D. G. 91A, 587
Carbone, E. 89B, 153	Chen, J. H. 91B, 631	Cockroft, A. C. 90A, 63,
Cardemil, E. 90B, 671	Chen, M. L. 90B, 439	71
Cardoso, I. 91A, 645	Chen, S-J. 90C, 317	Cohen, C. 91C, 31
Carlberg, M. 91C, 69	Cheng, K-C. 91B, 467	Coimbra, J. 91A, 487, 645
Carlsten, A. 89C, 77	Cherksey, B. D. 90A, 687,	Colas, B. 91C, 597
Carreras, J. 90B, 453	771	Colepicolo, P. 91B, 143
Carreras, M. 90B, 739	Chieffi, G. 91A, 175	Coler, R. A. 91C, 499
Carretta, M. 91A, 405	Childress, M. J. 89A,	Coloso, R. M. 89A, 11
Cartaxo, A. C. L. 89A,	481	Colston, K. W. 89B, 709
309	Chillemi, R. 90B, 397	Colvin, H. W. Jr. 90A,
Carter-Edwards, T. 89B,	Chiu, K. W. 89C, 147	481; 91A, 635
427	Chotesangasa, R. 90C, 225	Conceicao, M. 90B, 275
Carvajal, N. 90B, 77,	Christensen, K. 91A, 279,	Condo, S. G. 90B, 585;
385	463	91A, 445
Casciano, D. A. 89B, 43	Chugan, A. 91C, 585	Connat, J-L. 91B, 257
Caselgrandi, E. 89C, 267	Chung, S. 89B, 539	Contestabile, A. 89C, 241
Cassano, G. 91A, 779	Church, P. J. 89A, 455	Conway, G. L. 91A, 671
Castane, P. M. 90A, 249	Church, W. R. 91B, 541	Cooke, I. M. 91C, 205
Castaneda, M. 91B, 707	Chwalibog, A. 91A, 463	Cooper, J. 91A, 305
Castellani, L. 91C, 31	Civas, A. 91B, 449, 459	Cope, V. W. 89A, 471
Castex, C. 91A, 665	Claggett, C. E. 91B, 137	Copeland, J. 89A, 391
Castillo, R. 89B, 239	Clark, A. G. 89B, 409	Copeland, P. A. 91B, 17
Castro, C. 91B, 707	Clark, J. 90B, 379	Coppieters, W. 90B, 751
Castro, M. G. 91C, 389	Clark, M. W. 89C, 15	Corda, M. 91A, 445
Cattaneo, P. 90B, 1	Clarke, A. 90B, 461	Correia, M. A. 90C, 41

Corsaro, C. 89B, 715	Danbara, H. 90C, 461	de la Noue, J. 89C, 57
Cortes, A. 91A, 153,	Dang, Q. Q. 91B, 79	del Castillo, J. 91C, 287
711	Daniel, W. L. 90B, 823	Delcomyn, F. 91A, 769
Corti, A. 89B, 137	Dankovic, D. A. 91C, 431	Deliagina, T. G. 91C, 199
Cottrell, G. A. 91C, 165	Dash, J. A. 89B, 221	Deliconstantinos, G. 89B,
Coulon, M. 89A, 503	Dasmahapatra, A. K. 91C,	585
Covens, M. 90B, 227	301	Dell'Agata, M. 89B, 323
Coviello, A. 90C, 195	Dauble, D. D. 91C, 431	De Loof, A. 89A, 595;
Cox, R. T. L. 91C, 541	Daughaday, W. H. 91A, 15	90A, 253; 90B, 227
Cragoe, E. J. Jr. 90A,	Davalli, P. 89B, 137	de Looze, S. 91B, 171,
551	Davenport, J. 90A, 511;	179
Craig, S. P. 91B, 707	91B, 647	del Rio, C. M. 91B, 751
Crane, T. L. 91B, 557	Davidovic, V. 91A, 697	Demacker, P. N. M. 90B,
Crim, J. W. 89A, 655;	Davie, P. S. 89A, 247	297
89C, 299; 90C, 267	Davies, B. R. 89A, 425	de Mahieu, G. 89A, 487
Crisp, E. A. 90B, 367,	D'Avino, R. 90B, 579,	de Mendonca, R. L. 91C,
371	585	327
Cronin, K. L. 89A, 669	Davison, W. 89A, 247	Demeusy, N. 91C, 111
Cronshaw, J. 91A, 513	Dawson, T. J. 89A, 85	Dennison, C. 90B, 201
Crossley, F. 89C, 93	Dean, D. 90A, 425	de No, C. 89B, 507
Crozier, W. W. 90B, 95	Dean, J. A. 89C, 31	de Quiroga, G. B. 89B,
Crupkin, M. 89A, 7	Dean, P. W. 90B, 141	363
Cruz, F. 89C, 377	Deaton, L. E. 91C, 187	Derby, C. D. 90A, 85
Cuchens, M. A. 90A, 103	de Bruno, M. P. 90C, 195	Deridovich, I. I. 89B, 9
Cupp, P. V. Jr. 90A, 15	de Cassia, R. 89A, 309	DeShazer, J. A. 89A, 475
Czarnecki, C. M. 91C, 60	07de Castro Faria, M. V.	Deslous-Paoli, J. M. 89B,
	91C, 327	51
Daae, H. L. 90B, 59;	de Chialvo, P. L. 90C,	Detrich, H. W. III. 90B,
91c, 377, 553	195	593
Daemers-Lambert, C. 90C	Decker, E. A. 91B, 7	Deura, S. 91A, 353
107	Dedovic, N. 91A, 697	de Vicente, M. 90C, 61
Daguzan, J. 89A, 351	De Falco, M. 91B, 467	Devos, P. 89B, 339; 90B,
Daikoku, T. 89A, 261,	deFur, P. L. 89A, 97	215
437	Degani, G. 89A, 347	de Vos, V. 89A, 231
Dameto, M. C. 90A, 241	de la Cruz, M. J. 91C,	DeVries, A. L. 90B, 611
Damiani, G. 80B, 1	443	Dhainaut-Courtois, N.89C,

	321	Duke, E. J. 89B, 263	Ellory, J. C. 90A, 533
	Diaz, M. 91A, 71	Duke, G. E. 90C, 231	Ellwood, K. C. 89A, 371
	Diaz-Mayans, J. 89B, 471	Duncan, C. J. 90C, 459	Elo, H. A. 90C, 65
	Dickinson, P. S. 89A, 579	Dunn, J. F. 90B, 539	El-Sayad, M. S. 90A, 409;
	Diefenbach, C. O. da C.	Dunson, W. A. 89A, 409;	90B, 489
	89A, 149	90A, 391	Elwing, H. 91C, 513
	Diez, A. 91A, 367	Dunstan, G. A. 91B, 165	Elzanowski, A. 89B, 433
	Di Giulio, R. T. 90C,	Dupin, A. M. 89B, 197,	Elzen, G. W. 89B, 317
	21; 91C, 293	245	Endo, T. 90B, 779
	Di Matteo, L. 91A, 175	Du Preez, H. H. 89A, 283;	Engelhardt, W. v. 90A, 563
	Dimberg, K. 91A, 253	90A, 63, 71	Enomoto, T. 90B, 897
	Dimock, R. V. Jr. 91C,	Duran, C. 91B, 663	Epple, A. 89C, 83
	193	Durliat, M. 89A, 223	Erasmus, T. 89A, 251; 91A,
	Diop, M. 89B, 209	Durst, H. D. 91C, 575	727
	di Prisco, G. 90B,	Du Toit, R. 91A, 343	Erdene, T. G. 89B, 385
	459, 579, 585, 631	Dutrieu, J. 89B, 233	Erickson, M. C. 91B, 7
,	Dirven, H. 90A, 767	Dwivedy, A. K. 91C, 349	Eriksen, K. D. H. 91C,
	Dissing, S. 90A, 739	Dyball, R. E. J. 90A,781	377, 553
	Djamgoz, M. B. A. 89C,	Dykens, J. A. 91C, 35	Eriksson, J. E. 89C, 207
	109		Erlij, D. 90A, 693
	Doherty, J. D. 91C, 371	Eakin, R. M. 91C, 247	Ermolin, G. A. 90B, 709
	Dombradi, V. 91B, 717	Eastman, J. T. 90B, 529	Erspamer, G. F. 91C, 281
	Donahue, M. J. 91C, 307	Easton, D. M. 91C, 91	Esch, H. 91C, 517
	Donald, J. A. 90C, 165	Eddy, F. B. 89A, 535	Eskesen, K. E. 90A, 687
	Donaldson, D. J. 90A,	Edmonds, J. S. 90C, 313	Espina, S. 90A, 249
	475	Edwards, B. A. 90A, 93	Espinet, C. 90B, 453
	Donnellan, J. F. 89B,	Eguchi, M. 91B, 625	Essenberg, R. C. 91B, 117
	577	Ehrenstrom, F. 89C, 65;	Estivariz, F. E. 91C, 389
	Dorward, P. M. 89C, 337	90C, 123	Eto, M. 91C, 365
	Douglas, W. L. 90B, 721	Eichinger, H. 90B, 447	Evans, G. O. 89C, 375
	Douste-Blazy, L. 91B, 79	El Bakary, Z. 90C, 173	Eyre, D. R. 91B, 531
	Drnkova, J. 90C, 257	Elfers, S. 89A, 97	
	Dubois, A. B. 91A, 807	El-Hassan, A. M. 90A, 229	Faber, J. A. J. 90C, 335
	Ducote, J. 91B, 477	Elkin, R. G. 91B, 325	Fahim, F. A. 90B, 851
	Duffield, R. M. 91B, 771	Ellison, G. T. H. 91A,	Failla, M. L. 90B, 439
	Duhaiman, A. S. 91B, 793	123	Fainaru, M. 91B, 331

Author index

Fairney, A. 91B, 511	Fitch, J. 89C, 109	Francois, J. 89B, 213
Faix, S. 91A, 689	Fitch, N. A. 91B, 671	Frandsen, J. C. 91C, 385
Fanjul-Moles, M. L.	Flanagan, D. 91C, 133	Franklin, C. E. 89C, 117
91A, 61	Flett, P. A. 91A, 371	Frans, A. 89A, 553
Farina, F. 90B, 561	Florant, G. L. 91A, 179	Frazier, J. M. 91C, 355
Farrell, A. P. 91A, 271	Flory, W. 89C, 153;	Frazier, L. W. 91A, 53
Farrell, K. P. 90B, 335	91C, 419	Freedman, J. E. 91C, 51
Fauconneau, B. 91A, 101	Fluck, R. 89C, 369	Fremont, L. 89B, 399, 525
Faulkner, A. 91B, 25	Fluck, R. A. 89A, 609	Frenkel, G. D. 91B, 477
Faulkner, D. J. 89B,275	Flugge, G. 91A, 685	Frias, I. 89B, 131
Favrel, P. 89B, 201	Flynn, A. 90A, 309	Frick, A. 90A, 465, 471
Fedde, M. R. 91A, 135	Flynn, M. 89C, 153	Fricke, H. 89B, 39
Feller, G. 90B, 601	Fogel, W. A. 89C, 355	Frieden, E. 91C, 301
Fenner, P. J. 91C, 79	Folco, E. J. 91B, 473	Frisbie, M. P. 89A, 409
Fenske, M. 91A, 789	Folk, G. E. Jr. 91C, 251	Frizzell, R. A. 90A, 597
Feral, J-P. 90A, 429	Foltmann, B. 89B, 385	Fromm, P. O. 89A, 25
Ferguson, H. W. 91B, 557	Fonda, M. L. 90B, 731	Fromm, T. 91A, 549
Fernandez, A. 91C, 493	Fong, W-P. 89B, 85	Fromter, E. 90A, 701
Fernandez-Belda, F. 90B,	Ford, S. E. 90A, 183;	Fuchs, E. 91A, 685
767	91A, 603	Fuentes-Pardo, B. 91A, 61
Ferracin, A. 89B, 323	Forget, MCl. 90B, 215	Fujii, E. 91C, 613
Ferrand, R. 91C, 597	Forlow, L. J. 89A, 51	Fujii, H. 91B, 701
	10110W, B. O. OJA, 31	14 J11, M. 515, 701
Ferrando, M. D. 89B, 471	Forster, M. E. 89A, 247	Fujii, K. 89C, 233
Ferrando, M. D. 89B, 471 Ferrari, J. 91B, 763		
	Forster, M. E. 89A, 247	Fujii, K. 89C, 233
Ferrari, J. 91B, 763 Ferreira, C. 90B, 433	Forster, M. E. 89A, 247 Forsyth-Davis, D. 91B,	Fujii, K. 89C, 233 Fujii, R. 91A, 27
Ferrari, J. 91B, 763 Ferreira, C. 90B, 433	Forster, M. E. 89A, 247 Forsyth-Davis, D. 91B, 351 Forward, R. B. Jr. 90A,	Fujii, K. 89C, 233 Fujii, R. 91A, 27 Fujita, M. 90B, 795
Ferrari, J. 91B, 763 Ferreira, C. 90B, 433 Ferreira, H. G. 91A, 487	Forster, M. E. 89A, 247 Forsyth-Davis, D. 91B, 351 Forward, R. B. Jr. 90A,	Fujii, K. 89C, 233 Fujii, R. 91A, 27 Fujita, M. 90B, 795 Fujita, S. 90C, 351 Fujita, T. 89C, 389; 90B,
Ferrari, J. 91B, 763 Ferreira, C. 90B, 433 Ferreira, H. G. 91A, 487 Ferreira, K. G. 91A, 487	Forster, M. E. 89A, 247 Forsyth-Davis, D. 91B, 351 Forward, R. B. Jr. 90A, 135 Fosha-Dolezal, S. R. 91A	Fujii, K. 89C, 233 Fujii, R. 91A, 27 Fujita, M. 90B, 795 Fujita, S. 90C, 351 Fujita, T. 89C, 389; 90B,
Ferrari, J. 91B, 763 Ferreira, C. 90B, 433 Ferreira, H. G. 91A, 487 Ferreira, K. G. 91A, 487 Ferrer, A. 89B, 209 Fetterer, R. H. 90B, 321	Forster, M. E. 89A, 247 Forsyth-Davis, D. 91B, 351 Forward, R. B. Jr. 90A, 135 Fosha-Dolezal, S. R. 91A	Fujii, K. 89C, 233 Fujii, R. 91A, 27 Fujita, M. 90B, 795 Fujita, S. 90C, 351 Fujita, T. 89C, 389; 90B, 151 Fujiwara, A. 90B, 69
Ferrari, J. 91B, 763 Ferreira, C. 90B, 433 Ferreira, H. G. 91A, 487 Ferreira, K. G. 91A, 487 Ferrer, A. 89B, 209 Fetterer, R. H. 90B, 321	Forster, M. E. 89A, 247 Forsyth-Davis, D. 91B, 351 Forward, R. B. Jr. 90A, 135 Fosha-Dolezal, S. R. 91A 135 Foster, C. V. L. 91A, 82	Fujii, K. 89C, 233 Fujii, R. 91A, 27 Fujita, M. 90B, 795 Fujita, S. 90C, 351 Fujita, T. 89C, 389; 90B, 151 Fujiwara, A. 90B, 69
Ferrari, J. 91B, 763 Ferreira, C. 90B, 433 Ferreira, H. G. 91A, 487 Ferreira, K. G. 91A, 487 Ferrer, A. 89B, 209 Fetterer, R. H. 90B, 321 Fevolden, S. E. 90B, 507	Forster, M. E. 89A, 247 Forsyth-Davis, D. 91B, 351 Forward, R. B. Jr. 90A, 135 Fosha-Dolezal, S. R. 91A 135 Foster, C. V. L. 91A, 82	Fujii, K. 89C, 233 Fujii, R. 91A, 27 Fujita, M. 90B, 795 Fujita, S. 90C, 351 Fujita, T. 89C, 389; 90B, 151 Fujiwara, A. 90B, 69 Fujiwara, H. 91B, 149,
Ferrari, J. 91B, 763 Ferreira, C. 90B, 433 Ferreira, H. G. 91A, 487 Ferreira, K. G. 91A, 487 Ferrer, A. 89B, 209 Fetterer, R. H. 90B, 321 Fevolden, S. E. 90B, 507 Figgs, L. W. 89B, 119	Forster, M. E. 89A, 247 Forsyth-Davis, D. 91B, 351 Forward, R. B. Jr. 90A, 135 Fosha-Dolezal, S. R. 91A 135 Foster, C. V. L. 91A, 827 Foster, J. 91C, 403	Fujii, K. 89C, 233 Fujii, R. 91A, 27 Fujita, M. 90B, 795 Fujita, S. 90C, 351 Fujita, T. 89C, 389; 90B, 151 Fujiwara, A. 90B, 69 7 Fujiwara, H. 91B, 149, 155, 383
Ferrari, J. 91B, 763 Ferreira, C. 90B, 433 Ferreira, H. G. 91A, 487 Ferreira, K. G. 91A, 487 Ferrer, A. 89B, 209 Fetterer, R. H. 90B, 321 Fevolden, S. E. 90B, 507 Figgs, L. W. 89B, 119 Figueiredo, S. G. 91B,	Forster, M. E. 89A, 247 Forsyth-Davis, D. 91B, 351 Forward, R. B. Jr. 90A, 135 Fosha-Dolezal, S. R. 91A 135 Foster, C. V. L. 91A, 827 Foster, J. 91C, 403 Foster, P. G. 91B, 69	Fujii, K. 89C, 233 Fujii, R. 91A, 27 Fujita, M. 90B, 795 Fujita, S. 90C, 351 Fujita, T. 89C, 389; 90B, ,151 Fujiwara, A. 90B, 69 7 Fujiwara, H. 91B, 149, 155, 383 Fujiwara, M. 90C, 73 Fukuda, H. 91B, 285
Ferrari, J. 91B, 763 Ferreira, C. 90B, 433 Ferreira, H. G. 91A, 487 Ferreira, K. G. 91A, 487 Ferrer, A. 89B, 209 Fetterer, R. H. 90B, 321 Fevolden, S. E. 90B, 507 Figgs, L. W. 89B, 119 Figueiredo, S. G. 91B, 111	Forster, M. E. 89A, 247 Forsyth-Davis, D. 91B, 351 Forward, R. B. Jr. 90A, 135 Fosha-Dolezal, S. R. 91A 135 Foster, C. V. L. 91A, 82 Foster, J. 91C, 403 Foster, P. G. 91B, 69 Fournet, B. 89C, 321	Fujii, K. 89C, 233 Fujii, R. 91A, 27 Fujita, M. 90B, 795 Fujita, S. 90C, 351 Fujita, T. 89C, 389; 90B, ,151 Fujiwara, A. 90B, 69 7 Fujiwara, H. 91B, 149, 155, 383 Fujiwara, M. 90C, 73 Fukuda, H. 91B, 285

Furukawa, A. 89C, 11	Gatten, R. E. Jr. 90A, 53	Girija, N. 91B, 723
Furukawa, K. 91C, 613	Gauldie, R. W. 90A, 501;	Gleaves, E. W. 89A, 475
Furukawa, Y. 89C, 327	91A, 395	Glisic, S. 91A, 697
Furushima, R. 89B, 31	Gavioli, M. E. 90B, 285	Goad, L. J. 90B, 25
Furuya, W. 90A, 543	Gavish, D. 91B, 331	Godin, J. R. P. 90B, 335
Fuzeau-Braesch, S. 90C,	Geer, B. W. 90C, 439	Godoy, A. 91A, 599
173	Gehnrich, S. C. 91B, 11	Gogelein, H. 90A, 733
	Gehrke, P. C. 89A, 587	Gold, J. R. 90B, 715;
Gabel, G. 90A, 569	Gelfand, I. M. 91C, 199	91B, 639
Gaczynska, M. 91B, 617	Genicot, S. 90B, 601	Goldenberg, C. 90B, 623
Gade, G. 91A, 333	Gerday, Ch. 90B, 601	Gomez, G. 90C, 179
Gadir, F. A. 90A, 237	Geremia, E. 89B, 715	Gomez, R. 89B, 65; 90B,
Gahne, B. 90B, 409	Gerencser, G. A. 90A,621	53
Gainey, L. F. Jr. 91C,	Ghebremeskel, K. 89B,	Gomez, T. 90C, 203; 91A,
159	279; 91A, 343	71
Galtier, P. 89C, 225	Giacchino, J. L. 89A, 37	Gomez-Fernandez, J. C.
Galvin, M. J. 89A, 531	Giardina, B. 90B, 585;	90B, 767
Ganhao, M. F. 89A, 231	91A, 445	Gomme, J. 90A, 521, 651
Ganjian, I. 91B, 663	Gierthy, J. 91B, 477	Gonzalez, C. 89B, 131
Gao, G. 89B, 551	Gies, A. 91A, 549; 91B,	Gonzalez, M. P. 90C, 61
Garate, A. M. 90B, 53	483	Gonzalez, M. S. 90B, 235
Garbers, D. L. 89B, 687	Giesy, J. P. 89A, 25;	Gonzalez-Baro, M. Del R.
Garcia, E. S. 90B, 433	90A, 367	91B, 711
Garcia, X. 91C, 287	Gijon, E. 91C, 287	Gotoh, T. 90B, 301
Garcia-Barreno, P. 90B,	Gil, P. 89B, 363	Gotow, T. 91C, 75
307	Gilbert, F. F. 91A, 431	Gottlieb, C. O. 89C, 287,
Garcia-Gonzalez, M.	Gildberg, A. 91B, 425	293
90B, 767	Gildersleeve, R. P. 89A,	Goulletquer, P. 89B, 51
Garcia-Ruiz, M. A. 89B,	415, 511, 531; 89C, 15	Gourdoux, L. 89B, 233
521	Gilles, R. 89A, 163;	Gozzelino, M. T. 89B, 399
Garnett, S. 90A, 23	90A, 201, 315	Gradus, M. S. 89B, 75
Garson, M. J. 91B, 293	Gilliam, M. 90B, 757	Graf, F. 89B, 213
Garvey, J. S. 89C, 191	Gilmore, M. 89B, 75	Graham, S. 91A, 347
Gatanaga, T. 91B, 551	Giompres, P. E. 90C,281	Granath, W. O. Jr. 91B,
Gatehouse, A. G. 91B,	Giovannini, E. 90C, 413	619
315	Girelli, A. M. 91B, 193	Grandfils, C. 90C, 107

Grant, D. M. 89B, 317	Gustin, P. 89A, 553	491
Grasela, J. J. 90B, 427	Gutierrez-Merino, C.	Hanninen, O. 89C, 221
Graszynski, K. 89B, 171	89B, 531	Hannum, J. 89A, 615
Graubard, K. 91C, 115	Guzman, H. S. 89B, 153	Hanzlik, T. N. 90B, 117
Gray, D. A. 89A, 251;		Hara, K. 89A, 157
90A, 789; 91A, 727	Habbal, M. Z. 89A, 305	Harada, E. 90A, 329; 91A,
Gray, R. H. 91C, 431	Habbal, Z. M. 89A, 61,	43
Greco, T. 89A, 615	197	Harazna, J. 90B, 173
Greenberg, M. J. 90C,	Habig, C. 91C, 293	Harder, J. D. 90A, 441
113; 91C, 7	Hack, M. H. 89B, 111	Harel, A. 91B, 331
Greger, R. 90A, 733	Hadcocks, L. 89B, 709	Haritos, A. A. 91B, 741
Greif, K. 89B, 347	Hade, E. P. K. 90A, 475	Hariyama, T. 91A, 529
Griffith, J. S. 91A, 721	Hadjioloff, A. I. 90A,	Harpaz, S. 90A, 85
Griffiths, P. 91B, 511	515	Harper, A. A. 89A, 215
Grigg, G. C. 89A, 593;	Hadley, N. F. 91B, 685	Harrington, J. P. 91A,
91B, 39	Haggblom, L. 91B, 273	109; 91B, 663
Griggio, M. A. 90C, 151	Hagopian, K. 89B, 263	Harris, R. B. S. 91C, 579
Grinstein, S. 90A, 543	Haim, A. 91A, 123	Harris, R. C. 91A, 827
Gromadzka-Ostrowska, J.	Haimovici, M. 90B, 275	Harris, M. E. 89C, 165
89A, 313	Haines, H. 89A, 339	Harris, R. R. 90A, 303
Gromysz-Kalkowska, K.	Halim, M. N. 91B, 585	Harshman, L. G. 90B, 117
91A, 91	Hall, A. C. 90A, 533	Hart, D. A. 90B, 691
Groscolas, R. 90A, 361	Hall, J. E. 89B, 679	Hart, R. J. 90B, 141
Grossman, A. 91B, 389	Hall, L. D. 89A, 449	Hartline, D. K. 91C, 115
Grossman, S. H. 89B,	Halliday, J. W. 89B,	Hartman, H. B. 90A, 189
701	355; 90B, 837	Harvey, J. W. 89B, 105
Grundstrom, N. 91C, 513	Halm, D. R. 90A, 597	Hashimoto, K. 90B, 347,
Gubler, C. J. 90B, 167	Hamilton, M. G. 90B,869	355
Guella, G. 90B, 113	Hammock, B. D. 90B, 117	Haskin, H. H. 90A, 183;
Guengerich, F. P. 89C, 1	Hammer, C. 90B, 7	91A, 603
Guerra, R. J. 90A, 57	Hammons, R. L. 91A, 539	Hassan, T. 90A, 225
Guillet, J. C. 91A, 797	Hamoir, G. 90B, 557	Hassoni, A. A. 91C, 525
Guijarro, L. G. 89A, 237	Hamon, A. 91A, 797	Hasson-Voloch, A. 89A, 693
Gulati, R. D. 90C, 335	Han, K-K. 89B, 551;	Hatakeyama, S. 91C, 487
Gunn, A. 91B, 315	91B, 497, 777	Hatanaka, T. 91A, 377
Gupta, B. C. 91C, 565	Hanke, W. 89B, 719; 90A,	Hatcher, B. G. 90C, 313

Hattingh, J. 89A, 231,	125	Hulbert, A. J. 90A, 41
547	Hirsimaki, P. 90A, 321	Hultin, H. O. 89B, 671;
Hattori, H. 91C, 571	Hjerten, S. 90B, 409	91B, 7
Hatzopoulos, P. 89B, 557	Hochachka, P. W. 90B, 515	Humphrey, C. L. 90B, 361
Hay, L. 91A, 509	Hocman, G. 91A, 209	Hunt, H. 90C, 231
Hay, S. M. 89C, 337	Hodnick, W. F. 91C, 469	Hunt, L. T. 89B, 433
Hayashi, F. 89B, 475	Hoffmann, A. 90A, 115	Hunt, S. 91A, 837
Hayashi, S. 90B, 269	Hoffmann, R. J. 91C, 187	Huntington, C. E. 91A,
Hayes, M. A. 91B, 557	Hofmann, F. 90A, 681	519
Hedgecock, D. 90B, 809	Hollett, L. 90A, 405	Husayni, H. A. 89B, 35
Heim, K. 89C, 83	Hollingworth, S. 90B, 99	Hyder, S. M. 91B, 517
Heisler, C. R. 91C, 469	Holmes, W. N. 91A, 513	
Hellou, J. 89A, 211	Holmgren, S. 89C, 249	Ida, K. 91B, 365
Helmy, F. M. 89B, 111	Honkanen, R. E. 89A, 655	Iga, T. 90A, 147
Hemon, B. 91B, 777	Hood, S. R. 89C, 261	Igbokwe, E. C. 89B, 5
Henckel, S. 91A, 463	Hoo-Paris, R. 91A, 665	Iglesias, J. 91B, 1
Henry, T. R. 91C, 413	Horie, Y. 90C, 95	Ilyasova, E. N. 90A, 233
Heral, M. 89B, 51	Horiguchi, M. 91C, 483	Imahori, K. 89B, 381
Herrera, F. C. 89A, 377	Horiuchi, S. 89B, 569	Imai, K. 90A, 355
Hersey, S. J. 90A, 727	Horowitz, J. M. 89A, 37	Imai, S. 91A, 353; 91C,
Herskovits, T. T. 90B,	Hoshino, S. 90A, 355;	535
869; 91B, 597	91A, 327	Ingermann, R. L. 90A, 265
Hervonen, A. 90C, 161,	Hosono, A. 90B, 205	Inouchi, J. 91A, 377
245	Hotta, K. 90B, 37	Inoue, S. 89B, 475
Hervonen, H. 90C, 65	Howden, M. E. H. 90B, 141	Inoue, Y. 89B, 475
Herzog, G. A. 89C, 299	Hoyle, C. H. V. 90C, 113	Ioale, P. 91A, 87
Heyer, B. 90B, 809	Hsieh, L. C. 91C, 419	Irazu, C. E. 89B, 465
Hidalgo, J. 89C, 191	Hsu, K. 90C, 237; 91A,	Ireland, M. P. 90C, 189
Highet, R. J. 91B, 771	323	Iribarne, O. O. 90B, 317
Hill, R. B. 90C, 207;	Hsu, M. 90A, 441	Irie, K. 91C, 613
91C, 43	Hu, C. Y. 91C, 619	Iscan, M. 90C, 101, 241
Hillman, S. S. 89A, 45	Huberman, A. 91B, 345	Ishida, Y. 91A, 749, 759
Hino, A. 90B, 69	Hubicka, J. 91A, 91	Ishikawa, H. 91B, 149,
Hinson, W. G. 89B, 43	Hughes, M. R. 91A, 539,	155, 383
Hiromori, T. 91C, 371	671	Ishikawa, T. 90B, 773
Hirsch-Behnam, A. 91B,	Hugon, J. S. 90A, 669	Ishizaki, Y. 90C, 83

Ishizuka, T. 90B, 125	Johnson, I. 91C, 459	90C, 397
Ito, S. 89B, 79	Johnson, L. 89A, 243	Kaminsky, Y. G. 90C, 79
Ito, Y. 89C, 45	Johnson, L. N. 91B, 717	Kamiyoshi, M. 90C, 225
Itoh, Y. 90B, 155	Johnson, W. J. 91B, 51,	Kao, W. 91B, 351
Iturriza, F. C. 91C, 389	59	Kapadia, M. 91A, 15
Ivie, G. W. 91C, 425	Johnston, I. A. 90B, 547	Kappes, C. J. 89C, 315
Iwasaki, M. 89B, 475;	Jolkkonen, J. 90C, 245	Karakaya, A. 90C, 101,
90B, 193	Jonas, R. 89A, 309	241
Iwase, H. 90B, 37	Jones, A. D. 90C, 429	Karasawa, Y. 90B, 205;
Iwata, K. 91A, 499	Jones, C. S. 91A, 21	90C, 461; 91B, 789
Izumo, A. 91B, 735	Jones, S. L. 89C, 315	Karasinski, J. 91B, 359
	Jones, T. H. 91B, 581	Karel, W. J. 90B, 715
Jabalquinto, A. M. 90B,	Jonsson, A-C. 89C, 249	Kariya, Y. 90B, 355
671	Joosse, E. N. G. 91A, 147	Karlsson, J. O. G. 91C,
Jackson, L. L. 90A, 195;	Jørgensen, P. L. 90A, 757	513
91B, 685	Jousset, M. 89B, 51	Karm, S. 91B, 79
Jackson, M. J. 90C, 459	Jowett, D. A. 89B, 409	Kasahara, S. 91A, 183
Jackson, S. 91A, 305	Juknat, A. A. 91B, 279	Kass, L. 91C, 229
Jacobs, P. J. M. 89B,	Juneja, R. K. 90B, 409	Kasschau, M. R. 90A, 453
143	Junghahn, I. 89B, 329	Katano, E. 89B, 509
Jaffe, L. F. 89A, 609	Jurjus, A. 89A, 305	Kato, M. 91B, 735
Jakubow, K. 89A, 313	Jurss, K. 89B, 329; 90B,	Kato, S. 89B, 79
Jamall, I. S. 91C, 559	891	Kato, Y. 90B, 37
Janse, C. 90A, 269	Just, A. 91A, 279	Katsuyama, M. 90B, 131
Janska, H. 90B, 173		Kawai, H. 90B, 205
Janssens, P. A. 91A,	Kacemi, N. 91A, 665	Kawai, J. 90B, 773
451	Kai, K. 90C, 13	Kawashima, S. 89B, 381
Janssens, P. M. W.	Kajiura, H. 89B, 687	Kawata, Y. 91B, 149, 155
90A, 209	Kakegawa, T. 90A, 355;	Kawauchi, H. 91B, 657
Jauchem, J. R. 91A, 425	91A, 327	Kay, G. W. 89A, 231
Jeffs, S. A. 91A, 203	Kakuta, I. 90A, 109	Kennedy, R. H. 89C, 333
Ji, Y-H. 90C, 237; 91A,	Kalab, P. 91B, 783	Kent, A. D. 91C, 437
323	Kamau, J. M. Z. 89A, 567	Kerkut, G. A. 90A, 1, 5;
Jimenez, D. R. 90B, 757	Kambysellis, M. P. 89B,	91C, 525
Johansson, P. 89C, 65	557	Kernan, M. R. 89B, 275
Johnson, E. 90B, 809	Kameyama, Y. 90B, 269;	Keshmirian, J. 90C, 367

Kessi, E. 90B, 77, 385	Kitazawa, T. 89C, 277	Konno, K. 90B, 795, 803
Keung, W-M. 89B, 85	Kizawa, Y. 89C, 11	Konosu, S. 90B, 151
Keyvanfar, A. 90B, 393	Klaerke, D.A. 90A, 757	Koob, T. J. 91B, 531
Khairallah, E. W. 89A,	Klarenberg, A. J. 89B,	Korhonen, H. 89A, 219;
197	143	91A, 263, 469
Khennak, M. 91A, 387	Klaude, M. 91C, 603	Kornprobst, J-M. 89B, 209
Khoja, S. M. 89B, 393	Kleinow, W. 89B, 163,	Kosanke, G. J. 90C, 373
Khotimchenko, Yu. S.	347, 483; 91B, 247	Kosenko, E. A. 90C, 79
89B, 9	Klein-Rollais, D. 89A,	Kosiol, B. 89B, 171
Khurkhulu, Z. S. 89B,	351	Kostka, V. 89B, 385
271; 90A, 233	Klijnstra, J. 89B, 55	Kowalczyk, J. K. 91A, 269
Kido, R. 90B, 773	Kline, K. H. 91A, 815	Krajniak, K. G. 89A, 405
Kihara, H. K. 91B, 651	Kloas, W. 91A, 685	Krause, I. 90B, 447
Kihlstrom, M. 89B, 695	Klueber, K. M. 90C, 417	Kreimer, D. I. 89B, 9
Kikuchi, T. 90C, 361	Knight, M. H. 89A, 705	Kriesten, K. 90A, 413
Kim, H. L. 91C, 425	Knipper, M. 90C, 275	Kruger, F. J. N. 89A, 231
Kim, K. H. 91C, 549	Kobayashi, E. 91A, 43	Kruman, I. I. 89B, 271;
Kim, KS. 91B, 159	Kobayashi, H. 90A, 291	90A, 233
Kimmel, P. B. 90A, 127	Kobayashi, K.91A, 259	Krzywicki, Z. 89A, 313
Kimura, A. 89C, 277	Kobayashi, K-i. 89B, 569	Kubicz, A. 90B, 173
Kimura, Y. 90C, 237;	Kobayashi, M. 89C, 327;	Kubista, V. 89B, 343;
91A, 323	90C, 73	90C, 257
Kinne, R. K. H. 90A, 721	Kobayashi, S. 90C, 13	Kubo, S. 90B, 193
King, A. 89A, 211	Kobayashi, Y. 90A, 355;	Kuehl, M. C. 90A, 195
King, D. R. 91C, 343	91A, 327	Kujari, H. P. 89C, 207
Kinoshita, M. 89B, 359	Kocal, T. E. 91B, 557	Kukkonen, J. 91C, 465
Kirchmeier, D. 90B, 447	Koehl, C. 89A, 575	Kumar, S. 90B, 179
Kirchmeier, O. 90B, 447	Kohlsdorfer, Ch. 89B, 163	3 Kumazawa, T. 91C, 571
Kiriyama, H. 91A, 43	Koike, K. 90C, 95	Kumiya, T. 90B, 779
Kiss, T. 91C, 337	Kolaeva, S. G. 89B, 271	Kurahashi, H. 91A, 157
Kita, K. 89B, 31	Kolodziej, P. 91B, 577	Kurata, N. 90C, 13
Kitahara, N. 91B, 365,	Komazaki, S. 91A, 129	Kurita, M. 90C, 305
551	Komori, K. 91C, 311	Kurokura, H. 91A, 183
Kitazawa, T. 91C, 585	Komori, Y. 89B, 509	Kushak, R. 89A, 317
Kitaoka, S. 89B, 565;	Kondo, H. 89C, 277;	
90B, 897	91C, 585	Lafi, M. A. K. 89C, 141;

90C, 183	Lenal, R. 89B, 239	Lima, J. E. 89A, 113, 119
Lahti, E. 91A, 171	Leng, G. 90A, 781	Linnala-Kankkunen, A.
Laidley, C. W. 89C, 495	Leng, L. 91A, 689	90B, 91
Lambert, C. 90B, 785	Lenoir-Rousseaux, J-J.	Lockey, K. H. 89B, 595;
Lambert, J. G. D. 91C,	90B, 29	91B, 371
399	Leon, P. 89B, 521	Lomba, F. 89A, 553
Lamblin, G. 89B, 551	Leoni, S. 91B, 193	Lonn, B-E. 91A, 79
Landis, W. G. 91C, 575	Leung, M. K. 90C, 89	Lopez, L. 91A, 9
Lange, S. 90A, 611	Lerner, M. 89B, 75	Lorenzo, A. 91A, 71
Langton, P. D. 90C, 207	Leslie, S. 89A, 333	Loveridge, J. P. 89A, 443
Lanne, B. S. 91B, 729	Lessman, C. A. 89B, 15	Lucas, J. S. 90B, 141
Lappas, N. T. 90C, 47,	Levy, J. A. 90B, 275	Luck, S. 89A, 449
55	Lewis, J. C. M. 91A, 343	Luh, G. Y. 91B, 569
Larrieu, G. 89C, 225	Liaaen-Jensen, S. 91B,	Lund, J. 91C, 507
Larsen, E. H. 90A, 709	293	Lundgren, O. 90A, 603
Larson-Prior, L. J.	Libbus, N. 91C, 355	Lundholm, C. E. 89C, 361
91C, 51	Liem, H. H. 91B, 467	Lustick, S. I. 90A, 441
Lassalle, F. 91B, 187	Lightbody, J. J. 90B, 30	l Luz, J. 90C, 151
Lassegues, M. 91B, 187	Lim, H. Y. 89C, 147	Lyons, M. L. 91B, 325
Laufer, M. 89A, 377	Lin, L-F. H. 91B, 505	
Lauteric, T. J. 91A, 15	Linares, A. 91B, 1	McCall, K. E. 90C, 459
Leader, J. 91B, 685	Lindemann, B. 90A, 681	McCloskey, D. E. 89B, 679
Leake, L. D. 89C, 31,	Lindstrom-Seppa, P. 89C,	McCrohan, C. R. 90A, 17;
141; 90C, 183	221	91A, 387
Leatherland, J. F. 89A,	Little, M. 90B, 655	McFarlane, I. D. 89A, 365
495; 91A, 371	Lizen, E. 91B, 489	McGahan, T. J. 90B, 243
Lechleitner, R. 90A,	Lo, H-s. 90B, 419	McGarrick, J. D. 89C, 383
643	Lockshin, R. A. 91C, 559	McIntosh, M. J. 89C, 211,
Lechner, E. 90B, 447	Lofqvist, J. 91B, 729	215
Leech, C. A. 90A, 297	Lombardo, M. E. 91B, 279	McKenna, T. M. 89A, 339
Legrand, P. 89B, 227	Long, J. P. 91C, 251	McKinney, R. W. 89A, 637
Legssyer, A. 89B, 251	Lonnroth, I. 90A, 611	McLachlan, A. 89A, 283
Leibel, W. S. 91B, 437	Lopez-Ruiz, M. P. 89A,	McLeese, J. M. 90B, 375
Lekeux, P. 89A, 553	237	McMurtry, J. P. 90B, 311;
Lemarchal, P. 89B, 227	Lowe, K. C. 89C, 127	91A, 67
Lembke, H. F. 91A, 587	Lim, B. C. 89A, 559	McPherson, R. 89A, 615

McRee, D. I. 89A, 415,	Makuta, M. 90B, 151	Mason, A. B. 91B, 541
531; 89C, 15	Malatesta, R. J. 91A, 675	Masri, S. W. 90B, 167
	Mallefet, J. 89C, 159	Massahud, N. 91B, 111
Ma, D. P. 91B, 639	Maloiy, G. M. O. 90A,	Masson-Pevet, M. 89A, 575
Ma, Y-C. 89B, 31	121; 91A, 1, 437	Mata, F. 90B, 307
Maaskant, J. J. 89B, 55	Maloy, W. L. 91B, 467	Mateo, M. C. M. 89B, 507
Mably, E. R. 89B, 427	Mancini, I. 90B, 113	Matkovics, B. 90C, 69
Macarulla, J. M. 90B,53	Manconi, R. 91B, 237	Matsumura, F. 89C, 179
Macdonald, A. G. 89A,	Mandelzys, A. 90B, 843	Matsunaga, T. 91A, 565
215	Mane, S. D. 91B, 117	Matsuno, T. 90B, 131
Macdonald, J. A. 90B,	Mansfield, J. M. 89B, 679	Matsuoka, N. 89B, 517
567	Mansour, N. S. 90B, 851	Matsuoka, T. 90C, 347
Macdonald, N. L. 90B,	Manville, J. F. 89A, 449	Matsushima, O. 90A, 349
379	Manwell, C. 89B, 441, 453	Matsushita, H. 91B, 91
Macey, D. J. 91B, 159	Manzano, I. 90B, 53	Matsuura, M. 90B, 795,
Machado, J. 91A, 487,	Manzoni, G. C. 89A, 329	803
645	Maples, P. B. 91B, 755	Maullem, S. 90A, 727
Macias, P. 89B, 531	Marais, J. F. K. 89A, 283	Mazzotti, F. J. 90A, 391
Mack, U. 90B, 837	Marco, C. 91B, 1	Means, G. D. 91A, 621
Mackenzie, N. E. 89B,	Marder, J. 90A, 497; 91A,	Means, G. E. 91B, 267
679	165	Meheus, L. A. 91B, 103
Maclean, N. 89C, 93	Maresca, B. 90B, 459, 623	Meister, R. 91A, 141;
MacLeod, K. R. 91A, 271	Marino, M. 91B, 193	91B, 691
MacMahon, J. A. 89A, 51	Marples, D. 90A, 661	Melcon, B. 90C, 179
Madureira, G. 89A, 693	Marrush, J. 89A, 305	Melrose, W. 89A, 383
Maekawa, H. 91B, 383	Marston, N. L. 90B, 427	Meltzer, A. 89A, 347
Maenpaa, P. H. 90B, 91	Martens, H. 90A, 569	Mendes, E. G. 90C, 385
Maginyan, S. B. 90C, 29	Martin, A. 89A, 487	Mercer, A. R. 91C, 133
Magniez, P. 90A, 429	Martin, B. M. 89B, 153	Mercer, J. G. 90B, 261
Mainwaring, M. G. 89A,	Martin, R. E. 91C, 307	Mercer, S. A. 90A, 481
541; 90B, 301		
	Martin, R. J. 91C, 579	Merciai, B. M. 89B, 1
Makarova, I. E. 90B, 709		Merciai, B. M. 89B, 1 Meredith, J. 90A, 643
Makarova, I. E. 90B, 709	Martinez, A. 91B, 677	Meredith, J. 90A, 643
Makarova, I. E. 90B, 709 Makary, M. 91C, 425	Martinez, A. 91B, 677 Martinez, E. A. 90C, 89	Meredith, J. 90A, 643 Meredith, P. A. 89C, 211,

Merkle, S. 89B, 719;	Miyashita, N. 91C, 585	Morgan, E. H. 89A, 559
90A, 491	Miyata, S. 91B, 651	Moribayashi, A. 91A, 157
Mersmann, H. J. 91C, 619	Miyatake, K. 90B, 897	Morii, N. 91C, 371
Meryn, S. 91A, 179	Miyazaki, H. 89C, 87, 271	Moriniere, M. 89A, 223;
Messer, M. 90B, 367,	Mizuno, J. 91A, 733, 739	91C, 111
371	Mizuno, M. 90B, 269; 90C,	Morris, R. 91C, 449
Metcalfe, N. B. 91B, 371	397	Morris, S. 90A, 31; 91A,
Meyhofer, E. 89B, 189	Mizuno, T. 91A, 565	523
Meyran, J-C. 89B, 213	Mladenov, P. V. 90B, 885	Morse, M. P. 89B, 189;
Meza, A. R. Del A. 89C,	Mochida, K. 91C, 365	91C, 589
173	Mohamed, S. M. 90A, 225	Moyer, S. P. 91B, 639
Michaelis, O. E. 89A,	Mohareb, E. W. 90B, 851	Muller, E. F. 90A, 169
371	Mojon, M. 91B, 133	Muller-Eberhard, U. 91B,
Michelsen, D. B. 91C,	Moldenhauer, R. R. 91A,	467
479	539, 671	Munekata, E. 90C, 347;
Middlebrooks, B. L.	Molina, M. 90C, 203	91C, 549
90B, 721	Molyneaux, D. B. 91A,245	Muneoka, Y. 90C, 73
Middleton, J. F. S.	Mondola, P. 89B, 69	Municio, A. M. 90B, 307
91A, 837	Montecchia, C. L. 89A, 7	Munn, A. E. 90B, 261
Middleton, R. J. 90B,	Monteoliva, M. 89B, 521	Munoz, M. de L. 91B, 137
221	Montgomery, J. C. 90B,	Munro, H. S. 91C, 19
Mikajiri, A. 90B, 151	567	Murakami, H. 90C, 249
Milicua, J. C. G. 89B,	Montoya, G. A. 89C, 377	Murakami, M. 90B, 151
65; 90B, 53	Moore, A. 91A, 821	Muraki, T. 91C, 613
Minaire, Y. 90B, 209	Moore, R. E. 90A, 195	Muramatsu, T. 89A, 433;
Minucci, S. 91A, 175	Morales-Villagran, A.	91A, 765
Miralles, J. 89B, 209	89C, 173	Murata, M. 89A, 261, 437
Mitchell, A. D. 90B, 311	Moreau, R. 89B, 233	Murawski, U. 90A, 413
Mitsacos, A. 90C, 281	Moreau-Hamsany, C. 91A,	Murer, H. 90A, 749
Mitsuda, H. 91A, 749,	665	Murray, M. 90C, 89
759	Moreira, G. S. 91A, 105	Mustaquim, J. 91B, 197
Miura, K. 89B, 95	Moreira, P. S. 91A, 105	Mutchmor, J. A. 89A, 141;
Miura, Y. 89B, 79	Morello, A. 90C, 1	89C, 403
Miyagishima, Y. 90B, 795	Moreno, S. N. J. 91C, 321	
Miyajima, N. 91B, 383	Moreto, M. 91A, 367	Nafpaktitis, B. G. 89A,
Miyake, T. 91B, 155	Moreton, R. B. 90A, 297	203

Nagao, S. 90B, 125	Negre, A. 91B, 79	90C, 305
Nagaoka, I. 89B, 375;	Negre-Sadargues, G. 89B,	Nomura, Y. 91A, 259
91A, 115	239	Nordin, J. H. 90B, 861
Nagata, K-i. 90B, 125	Nejmeddine, A. 89C, 321	Nothig, E-M. 90B, 475
Nagata, Y. 89B, 179;	Nelson, D. G. A. 90A, 501	Nour, A. M. 90B, 851
91B, 503	Nelson, K. 90B, 809	Novakofski, J. 91C, 619
Nagy, T. R. 91A, 679	Nelson, R. J. 91A, 535	Novakova, O. 89B, 343;
Naito, H. 89B, 79	Nemoto, S-i. 90B, 69	90C, 257
Najdek, M. 91C, 409	Nery, L. E. M. 89A, 329	Novoselova, V. D. 89B, 1
Nakamura, H. 89C, 87	Nestor, K. E. 90B, 147	Nozawa, Y. 90B, 125
Nakamura, M. 89B, 381;	Neto, J. da C. B. 91C,	Nunez, A. 89B, 471
90C, 95	327	
Nakamura, T. 91C, 365	Nevenzel, J. C. 89C, 311	Obara, K. 89C, 45
Nakano, Y. 89B, 565	Newgrain, K. 90B, 367	Obinata, T. 90B, 779
Nakasono, I. 90B, 193	Newsome, R. 89C, 315	Ochiai, Y. 90B, 347, 355
Nakata, C. 91B, 789	Ngan, P. V. 91A, 105	O'Dea, K. 91B, 165
Nakazawa, S-i. 89A, 271	Ni, IH. 89A, 211	Odierna, G. 89B, 1
Nanbu, M. 89B, 569	Nicol, S. C. 89A, 383,	O'Donnell, M. J. 90B, 843
Naora, H. 90A, 147	387	Oehlenschlager, J. 89B,39
Napolitano, G. E. 90B,	Nicotra, A. 89C, 5, 257	Ogata, M. 90B, 193
875	Nielsen, R. 90A, 673	Ogilvy, C. S. 91A, 807
Naretto, E. 91A, 599	Nielsen, S. S. 89B, 419	Ogura, T. 90C, 351
Nasmith, P. E. 90A, 543	Nikai, T. 89B, 509	Ohga, A. 89C, 87, 271
Nassar, C. F. 89A, 61,	Nilsson, G. E. 90B, 109	Ohkuma, S. 89B, 309
197, 305; 91A, 33	Nishimura, K. 89C, 389	Ohlsson, L. 91A, 475
Nassar, G. M. 91A, 33	Nishio, A. 89C, 39	Ohnishi, J-i. 91C, 371
Nasser, M. G. 89A, 61,	Nishita, T. 91B, 91	Ohshika, H. 89A, 173
197, 305	Nishiyama, K. 91A, 353	Ohshima, S. 90B, 779
Naude, R. J. 89A, 251	Nishizawa, T. 91B, 365,	Ohta, M. 91B, 701
Naughton, J. M. 91B, 165	551	Ohtaki, T. 91A, 157
Nauntofte, B. 90A, 739	Nitta, K. 91B, 657	Oikari, A. 91C, 465
Navarro, E. 89A, 699	Nixon, D. A. 89A, 401	Okada, A. 90B, 269
Navas, P. 91A, 693	Nogrady, T. 90C, 367	Okawara, Y. 90A, 291
Neal, M. J. 91C, 579	Noguchi, T. 89B, 79	Okazaki, H. 91B, 365, 551
Nedeljkov, V. 89A, 67	Nomoto, T. 91C, 613	Okumoto, H. 89B, 475
Neelin, J. M. 91B, 69	Nomura, K. 89B, 687;	Okumura, J-i. 89A, 433;

91A, 765	Pak, R. C. K. 89C, 305	Pelouch, V. 90C, 257
Okuno, E. 90B, 773	Palmer, J. C. 91B, 755	Peltonen, L. 90A, 497
Olivo, R. F. 91C, 259	Palmer, R. M. 89C, 337	Peluffo, R. O. 90B, 235
Ollevier, F. 90B, 227	Palmquist, D. L. 90B, 147	Penefsky, Z. J. 90C, 133
Olmo, E. 89B, 1	Palvimo, J. 90B, 91	Pennec, JP. 89A, 215
Olsen, R. L. 91B, 677	Panchin, Yu. V. 91C, 199	Pennington, R. J. T. 91C,
Olson, J. M. 89A, 85	Pang, P. K. T. 89C, 147	395
Omer, R. 90A, 229	Pannunzio, G. 89B, 323	Pequeux, A. 89A, 163;
Onozuka, M. 91A, 353;	Paparo, A. A. 91C, 99	90A, 201, 315
91C, 535	Papi, F. 91A, 87	Peres, G. 91A, 9
Orio, A. A. 91C, 409	Papin, C. 90C, 173	Perez, J. A. 89B, 131
Orlovsky, G. N. 91C, 199	Pardini, R. S. 90C, 423	Perry, G. 90B, 785
Ortega, M. M. 89A, 699	Pardo, B. F. 90A, 435	Persat, F. 91B, 133
Osanai, M. 90B, 855	Paredes, S. R. 91B, 285	Petavy, A. F. 91B, 133
Osborne, C. L. 90C, 459	Parker, D. S. 91A, 21	Petek, F. 91B, 449, 459
Oshima, N. 91A, 27	Parker, J. C. 90A, 539	Peters, A. R. 90A, 93
Osmanovic, S. S. 89A,	Parkhurst, C. R. 89A,	Peters, T. Jr. 89A, 559
187	415; 89C, 15	Petersen, O. H. 90A, 717
Ostadal, B. 90C, 257	Parsons, J. J. F. 90C,	Peterson, J. A. 91A, 347
Ottaviani, E. 89C, 267	459	Petit, L. 91B, 489
Ottolenghi, C. 90B, 285	Partali, V. 91B, 293	Petroff, O. A. C. 90B, 249
Ou, SP. 91C, 419	Pascoe, G. A. 90C, 41	Pettersson, AS. 89C, 71
Oufara, S. 90B, 209	Pascolini, R. 90C, 413	Petty, M. A. 89C, 211, 215
Overton, S. A. 90B, 593	Pass, M. A. 90B, 99	Pevet, P. 89A, 575
Owen, M. D. 91C, 403	Passano, L. M. 91C, 273	Pezo, P. 89C, 377
Oya, H. 89B, 31; 90C,	Patak, A. 89B, 27	Phillips, J. E. 90A, 643
391	Pate, M. G. 89B, 105	Phillips, M. I. 91C, 493
Ozoe, Y. 91C, 365	Patriarca, E. 90B, 623	Phleger, C. F. 90B, 279;
Ozono, S. 91A, 353	Patti, A. 90B, 397	91A, 97
	Patton, J. S. 89A, 655	Picard, J. J. 91B, 489
Paganelli, C. V. 89A,	Pavlik, M. 89B, 385	Piccialli, V. 91B, 237
125; 90A, 99	Pavlova, G. A. 91C, 199	Piechowska, M. J. 90B, 291
Page, R. 91A, 53	Pavoni, B. 91C, 409	Pieneman, A. W. 90A, 269
Pagliarani, A. 90B, 41	Pease, A. 89A, 97	Pierantoni, R. 91A, 175
Pagliuca, G. 89B, 183	Pellegrini, M. G. 91A,	Pietra, F. 90B, 113
Pagni, D. 91B, 143	445	Pindel, E. V. 89B, 245

Pinto, M. C. 89B, 531	Prins, J. B. 89B, 545	Reboulleau, C. P. 91B, 477
Pipkin, J. L. 89B, 43	Prior, D. J. 89A, 579	Rechkemmer, G. 90A, 563,
Piretti, M. V. 89B, 183	Pritsos, C. A. 90C, 423	597; 91A, 659
Pistole, D. H. 91A, 679	Pronzato, R. 91B, 237	Redondo, J. L. 91A, 513
Planas, J. M. 91A, 367	Prosi, F. 89A, 75	Reeds, P. J. 89C, 337
Plavnik, I. 91A, 67	Proudman, J. A. 91A, 67	Rees, C. J. C. 89A, 243
Plaza-Yglesias, M. 89A,	Proverbio, T. 90B, 341	Rees, H. H. 90B, 261
377	Punnonen, E-L. 90A, 321	Rehbein, H. 91B, 723
Poch, H. C. i. 89B, 131	Punzo, F. 89A, 465; 90C,	Rehemtulla, A. 90B, 691
Pokorny, R. 91B, 783	381; 91A, 675; 91C, 333	Rehnberg, B. G. 89C, 197
Polidori, G. 89A, 541	Puviani, A. C. 90B, 285	Reid, J. L. 89C, 211,215
Pollero, R. J. 89B,		Reiter, R. J. 91A, 535
465; 90B, 317; 91B, 711	Qin, X-F. 91B, 497	Reithmeier, R. A. F. 91B,
Poluhowich, J. J. 90A,	Quabar, A. N. 90B, 301	613
57	Quayle, K. A. 90B, 379	Renoux, J. 91B, 449, 459
Pontes, Q. 89A, 309	Quetin, L. B. 90B, 499	Reshkin, S. J. 91A, 779
Popova, L. B. 91C, 199	Quinn, B. A. 91B, 557	Reunanen, H. 90A, 321
Porcheron, P. 89A, 223;		Reuss, S. 89A, 651
91C, 111	Raae, A J. 91B, 647	Rial, R. V. 90A, 241
Porotikov, V. I. 89A, 1	Racey, P. A. 90A, 337	Riazi, A. 89B, 399, 525
Portet, R. 91A, 141	Rada, J. L. 89A, 487	Rice, M. A. 89A, 631
Possani, L. D. 89B, 153	Radi, A. A. R. 90C, 69,	Ridenour, C. S. 90C, 47,
Pouliot, T. 89C, 57	267	203
Powell, E. N. 90A, 279	Rahn, H. 91A, 415, 519	Riekkinen, P. J. 90C, 161,
Powell, L. W. 89B, 355;	Ramirez, A. N. 89B, 153	245
90B, 837	Ramirez, V. 89A, 279	Rimoldi, O. J. 90B, 235
Power, D. M. 89B, 35,	Raper, J. A. 91C, 115	Rinderer, T. E. 91B, 581
335	Rasco, B. A. 89B, 671	Ristanovic, D. 89A, 187
Prehu, C. 89B, 257	Rasmussen, L. P. D. 91B,	Rivas, J. D. L. 89B, 65
Prehu, M-O. 89B, 257	45	Roa, J. 89C, 377
Prestwich, G. 90B, 117	Ramsay, D. J. 90A, 777	Robel, E. J. 90A, 421
Price, N. R. 90C, 221	Ratnayake, W. M. N. 90B,	Roberge, A. G. 89C, 57
Prieto, J-G. 90C, 179	875	Roberts, J. T. R. 91A, 543
Prill, M. S. 90A, 453	Ray, S. M. 90A, 279	Roberts, T. 91B, 351
Principato, G. B. 90C,	Rayo, J. M. 90A, 241	Robinette, J. D. 91A, 431
413	Reader, J. P. 91C, 449	Robinson, W. E. 91C, 589

Roch, Ph. 91B, 187	Rouanet, J-L. 90B, 209	741
Rochu, D. 90B, 393	Rouland, C. 91B, 449, 459	Salathe, R. 90B, 141
Rockwood, J. P. 91C, 499	Rovedatti, M. G. 90A, 249	Salibian, A. 90A, 249;
Rodriguez-Fernandez, J.	Rowe, L. 90A, 405	91A, 153
L. 89B, 131	Rowsemitt, C. N. 90A, 195	Salman, N. A. 89A, 535
Roehrig, K. 90B, 147	Roy, R. R. 91A, 347	Salminen, A. 89B, 695
Rogalle, P. 91B, 79	Rubin, H. N. 91B, 585	Salvayre, R. 91B, 79
Roger, C. 89B, 227	Rudchenko, S. A. 89B,	Samuels, R. I. 90C, 403
Rogler, J. C. 91B, 325	271; 90A, 233	Sanchez, J. J. 91B, 473
Rohrer, J. S. 90B, 243	Rugangazi, B. M. 90A,	Sanchez-Moreno, M. 89B,
Rohrer, W. H. 91C, 517	121; 91A, 1, 437	521
Rojas, A. 90B, 385	Rulli, R. D. 91B, 535	Sand, O. 90B, 401
Romero, F. J. 89B, 471	Russell, D. F. 91C, 115	Sanders, K. M. 90C, 325
Romero, S. B. 90A, 115	Russell, J. A. 90A, 781	Sano, M. 90C, 249
Ronai, A. 91B, 171,179	Rychkov, G. Y. 89A, 179	Santangelo, F. 89B, 69
Roncero, I. 91C, 443	Ryuzaki, M. 90B, 103	Santillo, M. 89B, 69
Ronnau, K. 90A, 563	Rzymkiewicz, D. M. 90B,	Santoro, C. 89B, 715
Rosa, G. 90C, 413	291	Santos, E. A. 89A, 329
Rosa, P. 89B, 257		Sara, M. 91B, 97
Rose, R. W. 90A, 459	Sa, C. 91A, 645	Sasaki, K. 91A, 183
Rosebrough, R. W. 90B,	Saari, P. 89B, 695	Satake, M. 90B, 151
311; 91A, 67	Sable-Amplis, R. 91B, 79	Satchell, G. H. 89A, 247
Roseghini, M. 91C, 281	Sacco, M. 90B, 623	Sato, K. 89B, 147; 90B,
Rosenberg, J. M. 91B,	Sachs, G. 90A, 727	155
33	Saenz, M. 90A, 435	Sato, M. 90B, 155
Rosenberg, M. 91C, 85	Safe, S. 91C, 425	Sato, P. H. 91B, 33
Rosenmann, M. 91A, 195,	Saglio, Ph. 91A, 101	Satou, M. 89A, 605
711	Sahota, T. S. 89A, 449	Satterlee, D. G. 89A, 415
Rosick, E. R. 91A, 309	Saint-Paul, U. 89A, 675	Sauer, G. R. 91C, 473
Rosin, J. 91B, 617	Sakaguchi, M. 89A, 261,	Sauer, J. 91A, 109
Ross, D. C. 89C, 299	437	Sauer, J. R. 91B, 117
Ross, L. G. 89A, 637	Sakai, H. 90C, 13	Saunderson, C. L. 89B,
Ross, R. M. 90B, 499	Sakharov, I. Yu. 90B, 709	127, 333
Rothwell, N. J. 89A, 265	Sakudo, F. 89A, 683	Sauriau, P. G. 89B, 51
Rotondo, D. 89B, 577	Salama, A. 91A, 79	Sautiere, P. 89C, 321;
Rotstein, O. D. 90A, 543	Salamastrakis, S. S. 91B,	91B, 777

22

Savage, L. M. 91A, 715	Scott, C. 91A, 271	Shing, Y. W. 89B, 551
Sayer, M. D. J. 89A, 359	Seals, J. D. 89B, 701	Shinozuka, T. 89B, 309
Saz, H. J. 91C, 517	Secombes, C. J. 89B,539	Shioda, M. 91B, 525
Scalia, M. 89B, 715;	Seechaus, T. 90B, 655	Shiomi, K. 90C, 361
90B, 397	Seewald, M. 90B, 447	Shiota, M. 91B, 701
Scemes, E. 90C, 385	Segall, H. J. 90C, 429	Shirley, T. C. 91A, 245
Schafer, R. 91A, 309	Segovia-Parra, J. L.	Shivatcheva, T. M. 90A,
Schafer, Z. 91B, 331	90B, 767	515
Scharloo, W. 89B, 143	Seifen, E. 89C, 333	Shoji, S. 91A, 363; 91C,
Schaup, H. W. 89C, 165	Selivonchick, D. P. 89C,	395
Scherz, H. 90B, 447	165	Shonnard, P. 90C, 325
Schjeide, O. A. 89B, 747	Semenova, M. N. 89C, 185	Short, C. R. 89C, 153;
Schlatter, E. 90A, 733	Senatori, O. 89C, 5, 257	91C, 419
Schlenker, E. H. 90C, 465	Senault, C. 91A, 141	Shumway, S. E. 90A, 425;
Schmidt, G. H. 89B, 489	Seno, H. 91C, 571	91A, 105; 91C, 159
Schmidt, J. 90C, 317	Senozan, N. M. 91A, 581	Siambela, M. 89B, 197
Schmieder, P. K. 91C, 41	3Serra, J. L. 91B, 677	Sica, D. 91B, 237
Schmitz, J. 91A, 769	Severin, S. E. 89B, 245	Sicard, R. 91B, 79
Schonne, E. 91B, 489	Severini, C. 91C, 281	Sichel, G. 89B, 715;
Schoonbee, H. J. 91A, 24	1Sguigna, C. 89C, 369	90B, 397
Schoumacher, R. A. 90A,	Shammas, N. W. 89A, 305	Siebelink, A. 89A, 97
597	Sharafuddin, M. 91A, 33	Siebens, A. W. 90A, 557
Schreiber, A. 89A, 75	Shaughnessy, P. D. 90B,	Siegel, M. R. 89C, 315
Schroder, H. 89A, 651	371	Sievert, G. A. 90A, 157
Schultz, R. 91A, 571	Shay, C. E. 91B, 69	Sievert, L. M. 90A, 157
Schultze-Motel, P. 89A,	Shephard, K. L. 91C, 503	Sikorowski, P. P. 90A,
93	Sheridan, M. A. 90B, 679	161; 91C, 437
Schuurmans, A. L. G.	Shiba, T. 91B, 155	Simaels, J. 90A, 693
90C, 335	Shibuya, T. 91A, 377	Simkiss, K. 89C, 53; 91A,
Schwartz, M. 91B, 331	Shick, J. M. 91C, 35	339
Schwippert, W. W. 89C,	Shimizu, I. 89B, 95	Simmons, L. A. 89A, 45
133; 90C, 373	Shimizu, Y. 89B, 147;	Simmons, T. W. 91C, 559
Sciuto, S. 89B, 715;	90B, 155	Simon, E. 90A, 789
90B, 397	Shimojo, T. 91B, 503	Simon-Oppermann, C. 90A,
Scott, A. I. 89B, 317,	Shinbo, H. 91B, 301, 309	789
679	Shine, R. 89A, 645	Simonsen, K. 90A, 709

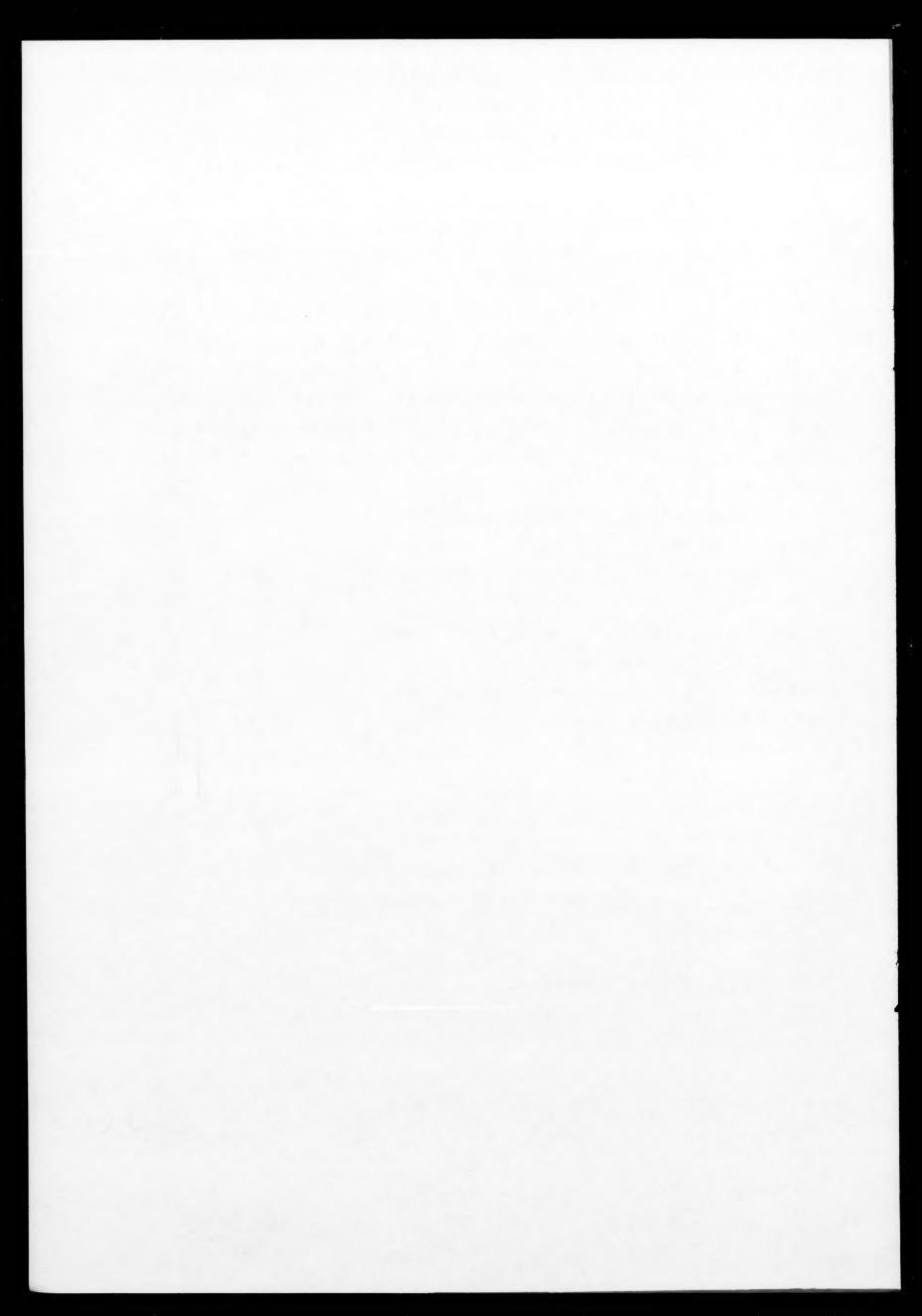
Simpson, K. L. 91B, 563	Souza, J. J. 90A, 57	90B, 861
Sinclair, A. J. 91B, 165	Spaargaren, D. H. 90A,	Stoilov, I. L. 91B, 293
Sine, J-P. 91C, 597	397; 91A, 457	Stolte, H. 91A, 685
Sirgo, M. 89B, 507	Spathis, R. 90C, 317	Stone, T. W. 89C, 383
Sirvio, J. 90C, 161, 245	Speakman, J. R. 90A, 337	Storelli, C. 91A, 779
Siverio, J. M. 89B, 131	Spik, G. 90B, 409	Stratil, A. 90B, 159,409;
Skadhauge, E. 90A, 521,	Spray, F. J. 91B, 619	91B, 783
583, 591, 611	Spring, K. R. 90A, 557	Strumeyer, D. H. 91B, 351
Skinner, D. M. 91C, 139	Spurling, N. W. 89A, 461	Studier, E. H. 89A, 471
Skinner, J. D. 91A, 123	Stahel, C. D. 89A, 383,	Stvolinsky, S. L. 89B,
Skorkowski, E. F. 80B,	387	197
19	Stahle, P. L. 90C, 47	Stynen, D. 90B, 227
Skulberg, O. M. 89C, 207	Stark, J. R. 90B, 379	Sugano, T. 91B, 701
Slater, N. T. 91C, 51	Steele, N. C. 90B, 311;	Sugawa-Katayama, Y. 90C,
Slechta, V. 91B, 697	91A, 67	461
Slip, D. J. 89A, 645	Stefano, G. B. 90C, 89,	Sugaya, Y. 91C, 487
Sloley, B. D. 89C, 197	287	Sugihara, H. 89B, 509
Smit, G. L. 91A, 241	Stehle, J. 89A, 651	Suhr-Jessen, P. 91B, 45
Smith, A. C. 90B, 791	Steiner, W. W. M. 90B,	Sui, Q. 90B, 475
Smith, G. 90C, 465	427	Suleymanyan, M. A. 89A,
Smith, H. A. 91C, 301	Stephens, G. C. 89A, 631	179
Smith, J. H. 90A, 309	Stephens, P. J. 89A, 455;	Sullivan, P. A. 91C, 589
Smith, M. W. 90A, 577	90A, 341	Sumi, Y. 91C, 487
Smith, R. G. 90B, 639	Stevens, B. R. 91B, 751;	Sun, Nai-En 91B, 777
Smith, R. I. 91C, 265	91C, 493	Sunaga, H. 91C, 487
Smolenski, A. J. 90A, 45	9Stevens, E. D. 89A, 131;	Sussman, W. A. 89B, 105
Snell, T. W. 89A, 481	90B, 375	Sutter, B. 91A, 665
Snow, D. H. 91A, 827	Stewart, B. A. 89A, 425	Suyama, H. 90B, 193
Snyder, F. F. 89B, 427	Stewart, I. 89A, 113, 119	Suzuki, H. 91C, 311
Soeda, H. 89A, 683	Stich, H. F. 89C, 395	Suzuki, K. T. 91C, 487
Soler, F. 90B, 767	Stickle, W. B. 91A, 317	Suzuki, M. 90A, 355; 90C,
Soma, G-I. 91B, 365, 551	Stock, M. J. 89A, 265	305; 91A, 27, 327
Somero, G. N. 90B, 521	Stockbridge, L. L. 91A,	Suzuki, N. 89B, 687
Song, M. K. 91B, 569	557	Suzuki, O. 91C, 571
Soszynski, M. 91B, 617	Stockbridge, N. 91A, 557	Suzuki, T. 90A, 79; 91C,
Soumoff, C. 91C, 139	Stoffolano, J. G. Jr.	487

Svelto, M. 90A, 669	Takeuchi, H. 90C, 347;	Terra, W. R. 90B, 433
Svoronos, S. 90B, 179	91A, 353; 91C, 549	Terwilliger, N. B. 89B,
Swain, U. G. 91A, 431	Takeuchi, K. 90B, 779	189; 91B, 273
Swiergiel, A. H. 89A, 32	Talesa, V. 90C, 413	Terwilliger, R. C. 89B,
Swift, M. L. 90B, 361	Tallas, P. G. 91A, 493	189; 91B, 273
Swinehart, J. H. 89C,	Tan, C-S. 90B, 745	Thaxton, J. P. 89A, 531;
287, 293	Tan, N-H. 90B, 745	89C, 15
Swinkels, D. W. 90B, 297	Tanabe, K. 91B, 735	Theophilidis, G. 90A, 257
Sylvester, H. A. 91B,	Tanaka, E. 90C, 13	Thexton, A. J. 89C, 383
581	Tanaka, H. 89B, 687	Thomas, D. G. 89C, 191
Syuto, B. 90A, 329	Tanaka, K. 90C, 225;	Thomas, D. H. 90A, 591
Szalewicz, A. 90B, 173	91A, 259	Thomas, M. P. 89A, 37
Szanyiova, M. 91A, 689	Tanaka, Y. 91A, 37	Thomas, P. 89C, 201; 91B,
Szuch, E. J. 89A, 471	Taneike, T. 89C, 87, 271	17
	Tang, P. 90B, 419	Thomas, T. L. 91B, 639
Taghon, G. L. 91B, 593	Tao, X. 89B, 551	Thomas, T. P. 90B, 361
Taioli, F. 89B, 183	Taplin, L. E. 89A, 443	Thompson, A. C. 90A, 161
Takabatake, I. 90A, 147;	Tarraga, S. A. 90A, 241	Thompson, D. B. 90B, 823
90C, 73	Tartoni, P. L. 89B, 137	Thompson, E. M. 89A, 203
Takada, M. 89A, 157;	Tasaki, I. 89A, 433; 91A,	Thompson, G. E. 90B, 163
91A, 129	765	Thomson, B. 90A, 643
Takada, N. 91B, 383	Taylor, A. 90A, 661	Thorbek, G. 91A, 463
Takahashi, K. 90B, 269;	Taylor, A. C. 90A, 31;	Thrasher, T. N. 90A, 777
91C, 483	91A, 523	Thurman, C. L. 91C, 171
Takamiya, S. 89B, 31	Tazawa, E. 90B, 69	Tiersch, T. R. 91A, 721
Takayanagi, G. 91B, 657	Tazawa, H. 89A, 125, 271;	Tilghman, J. A. 90C, 439
Takayanagi, H. 91A, 609,	90A, 99	Tillitt, D. E. 89A, 25
613	Tazawa, I. 89B, 475	Timmermans, J. A. H. 90A,
Takayanagi, I. 89C, 11;	Teichner, A. 89B, 323	767
90C, 95	Teller, J. K. 90B, 329	Timmers, R. J. M. 91C,
Takeda, N. 89C, 233;	Temma, K. 89C, 277; 91C,	399
91A, 609, 613, 733, 739	585	Tirindelli, R. 90B, 1
Takei, S. 89B, 309	Templeton, D. M. 90B, 335	Tiro, L. B. 89A, 11
Takei, Y. 90A, 291; 91A,	Terakawa, S. 90C, 237;	Tokimasa, T. 91C, 241
293	91A, 323	Toledo, C. 90C, 61
Takemura, H. 89A, 173	Terasaki, Y. 91B, 657	Tomogane, H. 90C, 225

Tompkins, T. M. 89A, 471	Uematsu, K. 89A, 601	van Os, C. H. 90A, 767
Toom, P. M. 90B, 721	Ueno, S. 91A, 749, 759	Van Vuren, J. H. J. 90A,
Torres, J. J. 90B, 521	Umebachi, Y. 90C, 83	49, 387
Tota, B. 90B, 459, 561	Unver, Z. 91A, 581	Van Waarde, A. 91B, 207
Toutant, J-P. 90B, 29	Urban, J. F. Jr. 90B,321	Van Wormhoudt, A. 89B,
Toygar, A. 90A, 465, 471	Ussing, H. H. 90A, 525	201
Toyoda, T. 89C, 11		Van Zutphen, L. F. 89B,
Toyohara, H. 89B, 359	Vaandrager, S. H. 91A,	545
Trausch, G. 90B, 215	653	Varney, D. R. 89C, 315
Tremml, P. G. 91A, 807	Valenti, G. 90A, 669	Varriale, B. 91A, 175
Trentalance, A. 91B, 193	Valjakka, A. 90C, 245	Vaughan, M. K. 91A, 535
Trigari, G. 90B, 41	van Aardt, W. J. 91A, 299	Vaughan, P. F. T. 89B, 577
Trillmich, F. 90B, 447	Van Beek, E. 89A, 595	Veares, M. P. 90B, 25
Trivedi, B. 91A, 15	van Corven, E. J. J. M.	Velasco, A. F. 89C, 173
Trombetti, F. 90B, 41	90A, 767	Ventrella, V. 90B, 41
Trowell, S. C. 89B, 285	Vandekerckhove, J. 90B,	Verachtert, B. 90A, 253
Trucco, R. E. 89A, 7;	751	Vereb, G. 91B, 717
91B, 473	van den Broek, L. A. M.	Verhoef, H. A. 91A, 475
Tsai, C. S. 90B, 335	90A, 767	Vermeulen, J. W. C. 89B,
Tsai, C. S. 90B, 335 Tsuchita, H. 91A, 43	90A, 767 van der Roest, M. 90A,	Vermeulen, J. W. C. 89B,
Tsuchita, H. 91A, 43	van der Roest, M. 90A,	143
Tsuchita, H. 91A, 43 Tsuji, F. I. 89A, 203	van der Roest, M. 90A, 269	143 Vernon, R. G. 91B, 25
Tsuchita, H. 91A, 43 Tsuji, F. I. 89A, 203 Tsukahara, Y. 91A, 529	van der Roest, M. 90A, 269 van der Sluis, I. 90C,	143 Vernon, R. G. 91B, 25 Vigna, S. R. 90C, 267
Tsuchita, H. 91A, 43 Tsuji, F. I. 89A, 203 Tsukahara, Y. 91A, 529 Tsukimura, T. 90C, 249	van der Roest, M. 90A, 269 van der Sluis, I. 90C, 341	143 Vernon, R. G. 91B, 25 Vigna, S. R. 90C, 267 Vilella, S. 91A, 779
Tsuchita, H. 91A, 43 Tsuji, F. I. 89A, 203 Tsukahara, Y. 91A, 529 Tsukimura, T. 90C, 249 Tsushima, N. 90B, 187	van der Roest, M. 90A, 269 van der Sluis, I. 90C, 341 van der Westhuyzen, J.	Vernon, R. G. 91B, 25 Vigna, S. R. 90C, 267 Vilella, S. 91A, 779 Villena, F. 89C, 377 Vinison, S. B. 89B, 317
Tsuchita, H. 91A, 43 Tsuji, F. I. 89A, 203 Tsukahara, Y. 91A, 529 Tsukimura, T. 90C, 249 Tsushima, N. 90B, 187 Tur, J. A. 90A, 241	van der Roest, M. 90A, 269 van der Sluis, I. 90C, 341 van der Westhuyzen, J. 90A, 117	Vernon, R. G. 91B, 25 Vigna, S. R. 90C, 267 Vilella, S. 91A, 779 Villena, F. 89C, 377 Vinison, S. B. 89B, 317
Tsuchita, H. 91A, 43 Tsuji, F. I. 89A, 203 Tsukahara, Y. 91A, 529 Tsukimura, T. 90C, 249 Tsushima, N. 90B, 187 Tur, J. A. 90A, 241 Turner, J. S. 89A, 125;	van der Roest, M. 90A, 269 van der Sluis, I. 90C, 341 van der Westhuyzen, J. 90A, 117 van der Wilt, G. J. 90A,	Vernon, R. G. 91B, 25 Vigna, S. R. 90C, 267 Vilella, S. 91A, 779 Villena, F. 89C, 377 Vinison, S. B. 89B, 317 Vinogradova, M. S. 91A, 235
Tsuchita, H. 91A, 43 Tsuji, F. I. 89A, 203 Tsukahara, Y. 91A, 529 Tsukimura, T. 90C, 249 Tsushima, N. 90B, 187 Tur, J. A. 90A, 241 Turner, J. S. 89A, 125; 90A, 99	van der Roest, M. 90A, 269 van der Sluis, I. 90C, 341 van der Westhuyzen, J. 90A, 117 van der Wilt, G. J. 90A, 269	Vernon, R. G. 91B, 25 Vigna, S. R. 90C, 267 Vilella, S. 91A, 779 Villena, F. 89C, 377 Vinison, S. B. 89B, 317 Vinogradova, M. S. 91A, 235
Tsuchita, H. 91A, 43 Tsuji, F. I. 89A, 203 Tsukahara, Y. 91A, 529 Tsukimura, T. 90C, 249 Tsushima, N. 90B, 187 Tur, J. A. 90A, 241 Turner, J. S. 89A, 125; 90A, 99 Turpaev, T. M. 89C, 185	van der Roest, M. 90A, 269 van der Sluis, I. 90C, 341 van der Westhuyzen, J. 90A, 117 van der Wilt, G. J. 90A, 269 van der Woude, H. A. 91A	Vernon, R. G. 91B, 25 Vigna, S. R. 90C, 267 Vilella, S. 91A, 779 Villena, F. 89C, 377 Vinison, S. B. 89B, 317 Vinogradova, M. S. 91A, 235 , Vinogradov, S. N. 89A, 541; 90B, 301; 91B, 577
Tsuchita, H. 91A, 43 Tsuji, F. I. 89A, 203 Tsukahara, Y. 91A, 529 Tsukimura, T. 90C, 249 Tsushima, N. 90B, 187 Tur, J. A. 90A, 241 Turner, J. S. 89A, 125; 90A, 99 Turpaev, T. M. 89C, 185 Turunen, S. 89A, 19	van der Roest, M. 90A, 269 van der Sluis, I. 90C, 341 van der Westhuyzen, J. 90A, 117 van der Wilt, G. J. 90A, 269 van der Woude, H. A. 91A	Vernon, R. G. 91B, 25 Vigna, S. R. 90C, 267 Vilella, S. 91A, 779 Villena, F. 89C, 377 Vinison, S. B. 89B, 317 Vinogradova, M. S. 91A, 235 , Vinogradov, S. N. 89A, 541; 90B, 301; 91B, 577
Tsuchita, H. 91A, 43 Tsuji, F. I. 89A, 203 Tsukahara, Y. 91A, 529 Tsukimura, T. 90C, 249 Tsushima, N. 90B, 187 Tur, J. A. 90A, 241 Turner, J. S. 89A, 125; 90A, 99 Turpaev, T. M. 89C, 185 Turunen, S. 89A, 19 Twarog, B. M. 91C, 21	van der Roest, M. 90A, 269 van der Sluis, I. 90C, 341 van der Westhuyzen, J. 90A, 117 van der Wilt, G. J. 90A, 269 van der Woude, H. A. 91A 147 Van de Weghe, A. 90B, 75	Vernon, R. G. 91B, 25 Vigna, S. R. 90C, 267 Vilella, S. 91A, 779 Villena, F. 89C, 377 Vinison, S. B. 89B, 317 Vinogradova, M. S. 91A, 235 , Vinogradov, S. N. 89A, 541; 90B, 301; 91B, 577 l Virtanen, E. 91A, 79
Tsuchita, H. 91A, 43 Tsuji, F. I. 89A, 203 Tsukahara, Y. 91A, 529 Tsukimura, T. 90C, 249 Tsushima, N. 90B, 187 Tur, J. A. 90A, 241 Turner, J. S. 89A, 125; 90A, 99 Turpaev, T. M. 89C, 185 Turunen, S. 89A, 19 Twarog, B. M. 91C, 21	van der Roest, M. 90A, 269 van der Sluis, I. 90C, 341 van der Westhuyzen, J. 90A, 117 van der Wilt, G. J. 90A, 269 van der Woude, H. A. 91A 147 Van de Weghe, A. 90B, 75 Van Driessche, W. 90A,	Vernon, R. G. 91B, 25 Vigna, S. R. 90C, 267 Vilella, S. 91A, 779 Villena, F. 89C, 377 Vinison, S. B. 89B, 317 Vinogradova, M. S. 91A, 235 , Vinogradov, S. N. 89A, 541; 90B, 301; 91B, 577 1 Virtanen, E. 91A, 79 Visser, J. G. J. 91A, 241
Tsuchita, H. 91A, 43 Tsuji, F. I. 89A, 203 Tsukahara, Y. 91A, 529 Tsukimura, T. 90C, 249 Tsushima, N. 90B, 187 Tur, J. A. 90A, 241 Turner, J. S. 89A, 125; 90A, 99 Turpaev, T. M. 89C, 185 Turunen, S. 89A, 19 Twarog, B. M. 91C, 21 Twigg, L. E. 91C, 343	van der Roest, M. 90A, 269 van der Sluis, I. 90C, 341 van der Westhuyzen, J. 90A, 117 van der Wilt, G. J. 90A, 269 van der Woude, H. A. 91A 147 Van de Weghe, A. 90B, 75 Van Driessche, W. 90A, 693	Vernon, R. G. 91B, 25 Vigna, S. R. 90C, 267 Vilella, S. 91A, 779 Villena, F. 89C, 377 Vinison, S. B. 89B, 317 Vinogradova, M. S. 91A, 235 , Vinogradov, S. N. 89A, 541; 90B, 301; 91B, 577 1 Virtanen, E. 91A, 79 Visser, J. G. J. 91A, 241 Viviani, R. 89B, 137
Tsuchita, H. 91A, 43 Tsuji, F. I. 89A, 203 Tsukahara, Y. 91A, 529 Tsukimura, T. 90C, 249 Tsushima, N. 90B, 187 Tur, J. A. 90A, 241 Turner, J. S. 89A, 125; 90A, 99 Turpaev, T. M. 89C, 185 Turunen, S. 89A, 19 Twarog, B. M. 91C, 21 Twigg, L. E. 91C, 343 Uchida, E. 90C, 13	van der Roest, M. 90A, 269 van der Sluis, I. 90C, 341 van der Westhuyzen, J. 90A, 117 van der Wilt, G. J. 90A, 269 van der Woude, H. A. 91A 147 Van de Weghe, A. 90B, 75 Van Driessche, W. 90A, 693 Vanfleteren, J. R. 91B,	Vernon, R. G. 91B, 25 Vigna, S. R. 90C, 267 Vilella, S. 91A, 779 Villena, F. 89C, 377 Vinison, S. B. 89B, 317 Vinogradova, M. S. 91A, 235 , Vinogradov, S. N. 89A, 541; 90B, 301; 91B, 577 1 Virtanen, E. 91A, 79 Visser, J. G. J. 91A, 241 Viviani, R. 89B, 137 Vlok, W. 90A, 49, 387

Volkmann, R. 89C, 77;	Watabe, N. 91C, 473	Wijsman, T. C. M. 89B, 55
91A, 225	Watabe, S. 90B, 347	Wild, T. F. 91B, 691
Vollrath, L. 89A, 651	Watala, C. 91A, 269	Wilkens, L. A. 91A, 571;
von Bodungen, B. 90B,	Watanabe, F. 89B, 565	91C, 61
475	Watanabe, H. 89B, 309	Wilkens, N. P. 90C, 215
von Deimling, O. 91B,	Waterman, J. 91A, 451	Willems, E. 89A, 553
171, 179	Watkins, B. 89C, 53	Willers, J. L. 91C, 437
von der Decken, A. 91C,	Watkins, J. B. III 90C,	Williams, C. A. 90A, 41
603	417	Williams, G. 89B, 279;
von Engelhardt, W. 91A,	Wazz, G. M. 89A, 61	91A, 343
659	Webb, J. 91B, 159	Williams, H. J. 89B, 317
Voogt, P. A. 90C, 341	Webb, L. 90C, 155	Williams, J. A. 89C, 261;
	Weinbach, E. C. 91B, 137	91C, 79
Wagner, W. C. 91A, 135	Weiss, M. 89B, 21	Williams, J. H. 89A, 295
Waite, M. E. 91A, 849	Weiss, S. R. 90A, 449	Willis, A. C. 91B, 717
Wakayama, H. 89A, 125	Weissinger, J. 91C, 419	Wilson, E. A. 90A, 279
Wakita, M. 90A, 355;	Welcomme, L. 89B, 339	Winegard, B. D. 91A, 309
91A, 327	Wellington, J. E. 91B,39	Winell, S. 89C, 71, 77
Waldrup, T. L. 89A, 113	Wells, R. M. G. 89A, 247,	Winkler, B. C. 89A, 481
Waldschmidt, A. 90A, 169	593; 90B, 567	Winkler, I. 89B, 489
Walker, G. 91A, 849	Welsh, C. J. 90A, 195	Winter, C. K. 90C, 429
Walker, R. J. 89C, 121;	Welsh John H. 91C, 5	Wissing, J. 89B, 299
90C, 285; 91C, 525, 541	Wenning, R. J. 90C, 21	Withers, P. C. 89A, 45
Wallraff, H. G. 89A, 621	Werner, R. 90C, 445	Wittliff, J. L. 91B, 517
Walther, B. 91B, 647	Wheeler, J. W. 91B, 771	Wofford, H. W. 89C, 201
Walton, D. G. 89C, 395	White, A. 91A, 599	Wolken, J. J. 91C, 145
Walz, D. A. 90B, 301	White, R. G. 91A, 493	Womack, J. 91C, 425
Wand, A. J. 90B, 335	White, H. B. III 90B, 243	3 Woodall, C. 89C, 93
Warashina, A. 90C, 351	White, M. E. 90A, 279	Woolfenden, W. R. 89B,
Ward, A. P. 90B, 833	Whitehead, C. C. 89B, 12	7 317
Wardle, C. S. 89A, 215	Whittow, G. C. 91A, 415	Wright, S. H. 90A, 635
Warncke, G. 89A, 93	Wiard-Bauer, L. K. 90C,	Wynne, H. J. A. 91A, 653
Wasfi, I. A. 90A, 237	231	
Washio, H. 91A, 37	Wiehle, R. D. 91B, 517	Xomali, R. 89B, 91
Wassermann, O. 89B, 305	Wieman, K. F. 89B, 419	Xu, L-X. 91B, 497
Wassmer, B. 91B, 171, 17	79Wiger, R. 91C, 553	

Yabu, H. 89C, 39	Yokoyama, Y. 89B, 359;	Zhu, D-X. 89B, 551; 91B,
Yaginuma, T. 91B, 631	91A, 759	497, 777
Yamada, M. 89B, 375;	Yonezawa, Y. 90B, 855	Ziegler, R. 91A, 549
90B, 187	Yong, H-S. 91B, 85	Zorbas, M. 89C, 333
Yamada, Y. 90A, 355;	Yorio, T. 91A, 53	Zou, B-X. 90B, 861
91A, 327	Yorita, K. 91B, 701	Zuleta, C. 91A, 711
Yamaguchi, K. 89A, 605;	Yoshikawa, H. 91A, 749,	Zummo, G. 90B, 561
90B, 151	759	Zuppa, F. 89B, 183
Yamaguchi, M. 89B, 687;	Yoshinaka, R. 89B, 147;	Zweilin, M. 91B, 257
90C, 305	90B, 155	Zwingelstein, G. 91B, 691
Yamaji, N. 91A, 27	Yoshino, K-i. 89B, 687;	Zygmunt, A. C. 89A, 45
Yamamoto, K-i. 89A, 65	90C, 305	
Yamamoto, Y. 91B, 625	Yoshino, M. 89C, 39	
Yamanaka, H. 90C, 361	Young, J. S. 90B, 301	
Yamano, T. 91B, 701	Young, J. Z. 89C, 101,	
Yamashita, O. 91B, 631	343, 349	
Yamashita, T. 89B, 375;	Young, L. E. 90C, 295,	
91A, 115	451	
Yamazaki, A. 90C, 249	Young, R. E. 90C, 295,	
Yanagawa, M. 90C, 73	451	
Yanagida, J-i. 89B, 309	Youson, J. H. 89A, 343;	
Yanaihara, N. 90C, 347;	91A, 701	
91C, 549		
Yang, H-L. 91B, 497	Zahn, R. K. 90C, 435	
Yashiro, K. 90B, 269;	Zalewska, B. 89A, 313	
90C, 397	Zalutskaya, E. A. 89B, 9	
Yasugi, S. 91A, 565	Zammit, V. A. 91B, 25	
Yasuhara, H. 90C, 13	Zamora, R. 89B, 531	
Yasumasu, I. 90B, 69	Zamorano, B. 91A, 153	
Yeh, LS. L. 89B, 433	Zandee, D. I. 90C, 335,	
Yin, C-M. 90B, 861; 91C,	341	
499	Zastrow, C. E. 90A, 279	
Ylitalo, P. 90C, 65	Zavos, P. M. 89C, 315	
Yokota, Y. 90B, 269;	Zebe, E. 89B, 299	
90C, 397	Zeef, L. A. H. 90B, 201	
Yokoyama, A. 90C, 225	Zeuthen, T. 90A, 687	



SUBJECT INDEX

Volumes 89-91 A, B and C inclusive, 1988

	~
A23187, 90A, 824; 91A, 27; 91C, 535	Action potential, 89A, 1, 37; 91A, 821
Achatina fulica, 91C, 549	Action potential propagation, 90A, 257
Aconitine, 91C, 349	1-acylglycerophosphorylcholine, 90B,
Abatus cordatus, 90A, 429	269
Acanthamoeba castellanii, 90B, 833	1-acyl- <u>sn</u> -glycero-3-phosphate, 90C, 397
Acanthaster planci, 90B, 141	Adenylate kinase, 90B, 427
Acanthoscelides obtectus, 89B, 419	Adenylyl compounds, 90C, 113
Acanthurus bahianus, 90B, 273;	ADH, 90A, 669, 789, 826
91A, 97	Adipocytes, 90A, 807, 812
Acanthurus dussumieri, 91B, 437	Adipose tissue, 89B, 227; 91A, 665
Acclimation temperature, 89A, 131	Adrenalectomy, 89A, 265; 91A, 135
Acetazolamide, 91A, 253	Adrenaline, 89C, 101; 90C, 165; 91A,
Acetoacetate, 89A, 309; 91B, 1	697
Acetylcholine, 89A, 1; 90C, 29, 165,	Adrenergic agonists, 91C, 579
317; 91C, 219	Adrenergic blockade, 89C, 113
Acetylcholinesterase, 89C, 185;	Adrenergic stimulation, 91A, 141
90B, 29, 745; 90C, 145, 215, 221;	α -adrenoceptor, 89C, 65; 90C, 95
91C, 293, 327, 597	α ₂ -adrenoceptor, 91C, 585
N-acetylglucosamine, 90A, 475	ADTN, 90C, 367
Achatina fulica, 89C, 238, 327;	Aepyteros melampus, 89A, 547
90C, 189, 347; 91A, 609, 613	Aerial insects, 89A, 149
Acidosis, 91A, 271	Age, 89B, 381
Acila castrensis, 89B, 189	Age pigments, 90B, 7
Acinonyx jubalus, 91B, 783	Aging male rat, 90C, 161
Acipenser guldenstadti, 90B, 393	Agkistrodon p. piscivorus, 89B, 509
Acipenser nudiventris, 90B, 393	β-agonists, 89C, 337
Acipenser stellatus, 90B, 393	AHH, 91C, 431
Acivicin, 90C, 391	Akodon olivaceus, 91A, 711
Acomys cahirinus, 90A, 169	<pre>g-alanine, 90C, 83; 91B, 216</pre>
Acremonium coenophialum, 89C, 315	Alanine:glyoxylate aminotransferase,
ACTH, 90A, 309; 91A, 789; 91C, 389	90B, 773
Actinia equina, 89A, 699	$N-\beta$ -alanyldopamine, 90C, 83

N- β -alanyldopamine, 90C, 83	Amino acid synthesis, 91B, 1
Albatross, 91A, 305, 415	Amino acid transport, 89A, 317, 631;
Alcohol, 90C, 79	90A, 635
Alcohol dehydrogenase, 89B, 85	S -aminolevulinic acid, 91B, 279
Aldehyde dehydrogenase, 90B, 109	S -aminolevulinic acid dehydratase,
Aldose reductase, 90A, 557	90B, 187; 91B, 285
Aldosterone, 90A, 829; 91A, 71,	Ammonia, 91A, 153, 499
513, 715	Ammonia production, 90B, 205
Alkaline phosphatase, 89B, 709	Ammotragus lervia, 89A, 75
Alkaline proteinase, 89B, 359;	Amphibian epithelia, 90A, 693
91B, 473	Amphimedon, 91B, 293
Alkaloid neurotoxins, 91C, 349	α -amylase, 89B, 143, 201; 91B, 351
Allethrin, 89C, 403; 91C, 371	Anaerobic metabolism, 89B, 299; 91B,
Alligator mississippiensis, 90A,	207
391; 91B, 751	Anaesthetic, 91A, 241
Allolobophora rosea, 89B, 347	Anaphylactic reaction, 91C, 287
Allozyme variation, 91B, 85	Anas junius, 91C, 333
Alopex lagopus, 91A, 263, 493	Anas platyrhynchos, 91A, 513; 91B, 325;
Alpha ₂ -adrenoceptors, 91C, 513	91C, 389
Alpha-tocopherol, 89B, 279; 91A, 343	Androctonus australis, 89C, 229
Aluminium, 91C, 449, 499, 503	Anemone volume regulation, 91C, 187
α -amanitin, 91B, 477	Anemonia sulcata, 89B, 305
Ambient temperature, 89A, 433	Angiotensin, 90A, 789; 91C, 493
Amblyomma americanum, 91B, 117	Angiotensin II, 89A, 251; 90A, 815;
Ambystoma macrodactylum, 90A, 265	90C, 195; 91A, 727
Ambystoma maxicanum, 89A, 157;	Anguilla anguilla, 91A, 101, 779
89C, 185	Anguilla japonica, 89A, 261; 89B, 147;
Ameiva ameiva, 89A, 309	91A, 293
Amia calva, 89A, 343; 90C, 267	Anguilla rostrata, 90A, 57
Amidantel, 91C, 525	Anodonta cygnea, 91A, 487, 645
Amiloride, 90A, 583, 677, 771, 832;	Anopheles albimanus, 90C, 145
91A, 129	Anopheles gambiae, 90A, 833
Amino acids, 89A, 13; 90C, 381;	Anoxia, 89B, 55
91A, 779; 91B, 207	ANP, 91A, 685
D-Amino acid oxidase, 89B, 179;	Antarctic organisms, 90B, 459
91B, 325, 503	Antelope, 89A, 547

Antenolol, 89C, 337	Aroclor 1254, 91C, 409, 425
Anthocidaris crassispina, 89B, 687	Aromatic hydrocarbons, 89C, 395
Anthonomus grandis, 90A, 161	Arphia conspersa, 89A, 51
Antibiotics, 90A, 161	Arsenic, 90C, 313, 361
Antifreeze glycopeptides, 90B, 611	Arsenobetaine, 90C, 313, 361
Antioxidant, 90C, 21	<u>Artemia</u> , 89A, 595
Antioxidant enzyme, 90C, 69, 423	Aryl hydrocarbon hydroxylase, 91C, 431
Antioxidative properties, 89B, 245	Arylsulphatase, 89B, 409; 90B, 823
Antisecretory factors, 90A, 611	Ascaris suum, 89B, 31, 521; 90B, 321;
Aorta, 90C, 95	91C, 307
Aphonopelma chalcodes, 89A, 465;	Ascidia ceratodes, 90B, 785
90C, 381	ASF, 90A, 611
Apis mellifera, 90B, 757; 91B, 581;	L-aspartate, 89A, 67
91C, 133	Aspartic proteinases, 91B, 425
Aplysia californica, 90A, 621; 91C,	Assembly of proteins, 91B, 613
219	Assimilation, 90A, 23
Aplysia kurodai, 89C, 233; 91A, 613	Astacus astacus, 91A, 171
APO, 90C, 367	Astacus leptodactylus, 89A, 223; 89B,
Аро-нх, 91В, 467	65; 90A, 820
Apolipoprotein, 89B, 69, 545	Astaxanthin, 90B, 53, 131; 91B, 563
Apomorphine, 89C, 121; 91A, 721	Asterias amurensis, 89B, 9
Aptenodytes forsteri, 90A, 361	Asterias forbesi, 90C, 113
Arabian race camel, 90A, 237	Asterias rubens, 90B, 25; 91B, 187
Arachidonic acid, 90B, 785	Asterina pectinifera, 90B, 70
Aragonite, 90A, 501	Atelecyclus rotundatus, 89A, 243
Araneus sclopetarius, 91B, 259	ATP, 89C, 101; 91B, 137
Arctocephalus galapagoensis, 90B, 4	47ATPase, 90B, 795
Arenicola marina, 89B, 347; 90B, 30	1 ATP citrate lyase activity, 90B, 147
Arginase, 90B, 385	Atrial natriuretic peptide, 91A, 685
Arginine, 90B, 77	Atrina pectinata, 90A, 79
Arginine kinase, 89B, 701	Atropine, 90C, 29, 313
Arginine vasotocin, 89A, 251; 89C,	A units, 91B, 585
147; 91A, 715, 727, 739	Autophagocytosis, 90A, 321
Argininosuccinate lyase, 89B, 433	Axonal spike, 89A, 455
Argyropelecus hemigymnus, 89C, 159	
Arion ater, 90C, 189	Baetis thermicus, 91C, 487

Blood Ca, 90A, 31

Balanus balanoides, 91A, 849	Blood coagulation, 89B, 305
Barbara colfaxiana, 89A, 449	Blood coagulation factor-VII, 89A, 461
Barbus aeneus, 90A, 49, 387	Blood glucose, 91A, 493
Barium, 91C, 589	Blood iron, 89A, 75
Barnacles, 91A, 849	Blood Mg, 90A, 31
Basal diet, 91A, 279	Blood potassium, 89A, 75
BAT, 89C, 337; 90B, 209	Blood pressures, 89A, 247; 89C, 65
Batrachotoxin, 91C, 349	Blood volume, 91A, 293
Bay K 8644, 89C, 39; 90A, 826	Body composition, 91A, 469
B cells, 90A, 103	Body fluid homeostasis, 90A, 777, 781
Beagles, 89A, 461	Body mass loss, 90A, 361
Beaver, 91A, 431	Body size, 91A, 221
Benznidazole, 90C, 1; 91C, 321	Body temperature, 89A, 93; 91A, 425
Benzo(a)pyrene mono-oxygenase, 89C,	Body water, 91A, 539
261	Boettcherisca peregrina, 91A, 157
Benzodiazepine, 90C, 151	Bombesin, 89C, 249
Benzyl alcohol, 90A, 807	Bombycilla cedrorum, 89A, 471
Bettongia gaimardi, 90A, 459	Bombyx mori, 89A, 503; 89B, 95; 90A,
Bicuculline, 89C, 383	822; 90B, 855; 91B, 301, 309, 626, 631
Bile, 91A, 43	Bone lipids, 90B, 279
Bile acids, 89A, 211	Boonea impressa, 90A, 279
Bile pigments, 91A, 701	Bos taurus, 89A, 401; 89C, 87; 90B, 147
Bilirubin, 91A, 701	Bovine trachea, 90A, 771
Biliverdin, 91A, 701	Brachionus plicatilis, 89A, 481; 89B,
Biocides, 89C, 133	483
Biogenic amines, 90C, 123, 173;	Bradycardia, 91A, 431
91C, 281	Bradykinin, 89C, 299, 349; 91C, 281
Biomphalaria glabrata, 91B, 111,	Bromocryptine, 89C, 121
619	Bronchus, 89C, 11
Biotin, 91A, 773	Brown adipose tissue, 89A, 265; 91A,
Bipalium sp. 89C, 234	141, 697
Bird caeca, 90A, 591	BuChE, 91C, 597
Blennius pholis, 89A, 359	Buffalo blood, 89A, 231
Bloat, 91A, 635	Bufo americanus, 89A, 131
Blood, 89A, 553; 90A, 141	Bufo arenarum, 90A, 249; 90C, 195

Bufo arunco, 90A, 249

Calcium channel modulation, 89C, 39
Calcium components, 89A, 455
Calcium current, 91C, 219
Calcium fluxes, 90A, 807; 91C, 449
Calcium homeostasis, 90A, 767
Calcium-stimulated ATPase, 89B, 585
Calcium transport, 91B, 137
Callinectes sapidus, 89A, 97; 91C, 293
Calmodulin, 90B, 215; 91B, 137; 91C,
535
Calvin cycle, 90B, 641
Camel blood, 89B, 35
Camelus dromedarius, 89B, 35, 335, 393;
90A, 237
Ca-Na exchange, 90A, 539
Cancer, 91A, 209
Cancer pagurus, 90A, 303
Canthaxanthin, 90B, 131
Capmembrane antigen, 90A, 103
Capmembrane antigen, 90A, 103 Capra hircus, 89A, 401; 90A, 229; 91B,
Capra hircus, 89A, 401; 90A, 229; 91B,
Capra hircus, 89A, 401; 90A, 229; 91B, 626
<pre>Capra hircus, 89A, 401; 90A, 229; 91B, 626 Carabus cancellatus, 91A, 269</pre>
Capra hircus, 89A, 401; 90A, 229; 91B, 626 Carabus cancellatus, 91A, 269 Carassius auratus, 89A, 601
Capra hircus, 89A, 401; 90A, 229; 91B, 626 Carabus cancellatus, 91A, 269 Carassius auratus, 89A, 601 Carbadox, 90A, 817
Capra hircus, 89A, 401; 90A, 229; 91B, 626 Carabus cancellatus, 91A, 269 Carassius auratus, 89A, 601 Carbadox, 90A, 817 Carbamate, 90C, 215
Capra hircus, 89A, 401; 90A, 229; 91B, 626 Carabus cancellatus, 91A, 269 Carassius auratus, 89A, 601 Carbadox, 90A, 817 Carbamate, 90C, 215 Carbamoyl-phosphate synthetase, 90C,
Capra hircus, 89A, 401; 90A, 229; 91B, 626 Carabus cancellatus, 91A, 269 Carassius auratus, 89A, 601 Carbadox, 90A, 817 Carbamate, 90C, 215 Carbamoyl-phosphate synthetase, 90C, 391
Capra hircus, 89A, 401; 90A, 229; 91B, 626 Carabus cancellatus, 91A, 269 Carassius auratus, 89A, 601 Carbadox, 90A, 817 Carbamate, 90C, 215 Carbamoyl-phosphate synthetase, 90C, 391 Carbohydrate, 90B, 367
Capra hircus, 89A, 401; 90A, 229; 91B, 626 Carabus cancellatus, 91A, 269 Carassius auratus, 89A, 601 Carbadox, 90A, 817 Carbamate, 90C, 215 Carbamoyl-phosphate synthetase, 90C, 391 Carbohydrate, 90B, 367 Carbonic anhydrase, 90A, 818, 831;
Capra hircus, 89A, 401; 90A, 229; 91B, 626 Carabus cancellatus, 91A, 269 Carassius auratus, 89A, 601 Carbadox, 90A, 817 Carbamate, 90C, 215 Carbamoyl-phosphate synthetase, 90C, 391 Carbohydrate, 90B, 367 Carbonic anhydrase, 90A, 818, 831; 90B, 639; 91A, 253; 91B, 91
Capra hircus, 89A, 401; 90A, 229; 91B, 626 Carabus cancellatus, 91A, 269 Carassius auratus, 89A, 601 Carbadox, 90A, 817 Carbamate, 90C, 215 Carbamoyl-phosphate synthetase, 90C, 391 Carbohydrate, 90B, 367 Carbonic anhydrase, 90A, 818, 831; 90B, 639; 91A, 253; 91B, 91 Carcinus maenas, 89A, 243; 89C, 261,
Capra hircus, 89A, 401; 90A, 229; 91B, 626 Carabus cancellatus, 91A, 269 Carassius auratus, 89A, 601 Carbadox, 90A, 817 Carbamate, 90C, 215 Carbamoyl-phosphate synthetase, 90C, 391 Carbonic anhydrase, 90A, 818, 831; 90B, 639; 91A, 253; 91B, 91 Carcinus maenas, 89A, 243; 89C, 261, 339; 90A, 303, 821, 823; 91A, 339,
Capra hircus, 89A, 401; 90A, 229; 91B, 626 Carabus cancellatus, 91A, 269 Carassius auratus, 89A, 601 Carbadox, 90A, 817 Carbamate, 90C, 215 Carbamoyl-phosphate synthetase, 90C, 391 Carbonic anhydrase, 90A, 818, 831; 90B, 639; 91A, 253; 91B, 91 Carcinus maenas, 89A, 243; 89C, 261, 339; 90A, 303, 821, 823; 91A, 339, 523; 91C, 459

Cardiac performance, 91A, 271 Cardiac rhythmicity, 91C, 91 Cardio-respiratory responses, 89A, Cardiovascular adjustments, 89A, 45 Cell differentiation, 90C, 47 Cardiovascular correlates, 90A, 53 Cellular dehydration, 90A, 291 Cardium edule, 91C, 35 Carnitine, 89B, 69; 90B, 855; 91A, Cell volume maintenance, 90B, 843 827 Carnitine palmitoyl transferase, Carotenoids, 89B, 239; 90B, 131 Carotenoprotein, 89B, 65; 90B, 53 Carp, 90C, 69 Carp RBC, 90A, 812, 813 Carp ventricular myocardium, 90C, 257 Cartilage, 91A, 837 Cassiopea xamachana, 91C, 273 Castor canadensis, 91A, 431 Castration, 89A, 575 CAT, 89C, 87; 91B, 315 Catalase, 89B, 363; 90C, 423 Catch muscle, 91C, 31 Catecholamines, 89C, 57, 77, 83, 211, 215; 900, 133; 910, 479, 585 Catechol compounds, 91C, 69 Catfish electroreceptors, 90A, 835 Cathepsin, 90A, 127; 90B, 201 Cathepsin D, 91B, 425 Cathepsin D-like, 89B, 569 Catostomus commersoni, 89C, 197 Caudina arenicola, 89B, 701 Caudiverbera caudiverbera, 91A, 153 Chicken visceral muscle, 91C, 287 Cavia cobaya, 91B, 626 Cavia porcellus, 89A, 401; 89B, Chiton latus, 90B, 385

85, 375; 89C, 45, 355; 90C, 241; 91A, 659; 91B, 33; 91C, 311 CCK, 89A, 655; 90C, 267; 91A, 8, 43, 179, 565 Cellulases, 91B, 449 Cembranoids, 90C, 158 Central pattern generation, 90A, 17 Centruroides limpidus, 89B, 153 Centruroides sculpturatus, 89C, 229 Cephalexin, 90A, 840 Cephalopods, 91C, 25 Cepphus columba, 91B, 273 Cerastoderma edule, 89B, 51 Cercaria caribbea, 90C, 295, 451 Cerebellum, 90C, 281 Cerebral cortex, 90C, 245 Cerebral ganglion, 91C, 403 Chactopterus variopedatus, 90B, 70 Chaenocephalus aceratus, 90B, 561 Channels and pumps, 89A, 187; 90A, 681; 90B, 515 Chanos chanos, 89A, 11 Chasmagnathus granulata, 89A, 329 CHAT, 89C, 241; 90C, 245 Chelodina longicollis, 90A, 41 Chelydra serpentina, 90A, 53 Chemoreceptor cells, 90A, 85 Chicks, 91A, 67; 91B, 1 Chick embryo, 89A, 125, 271 Chicken, 90A, 99, 241, 409 Chitinolytic activities, 90B, 379

Chloramphenicol, 90A, 161	Circannual fluctuations, 90A, 515
Chlordane, 89C, 361	Citellus citellus, 90A, 515
Chloride channel, 90A, 597	Citellus erythrogenys, 91A, 235
Chlorocruorins, 90B, 301	Citellus lateralis, 91A, 179
Chlorophenoxyacetic acids, 90C, 65	Citellus tridecemlineatus, 91B, 11
Chlorophyll, 91B, 279	Citellus undulatus, 89B, 271; 90A, 233
Chlorpromazine, 90C, 47, 55	CK, 90A, 237
Cholera toxin, 90A, 611	C-kinase, 90B, 125
Cholesterol, 89B, 69, 585; 90A, 413;	Clarias gariepinus, 91C, 399
90B, 671; 91B, 51, 59, 293	Clathrina clathrus, 91B, 97
Cholesterol esterases, 91B, 79	Clavarizona hirtosa, 91B, 159
Cholic acid, 89A, 211	Cleavage, 90C, 47
Choline, 89B, 111	Clenbuterol, 91C, 619
Choline deficiency, 90C, 439	Clibanarius erythropus, 89B, 239
Choline esterase, 89C, 87, 241;	C1-TC, 90C, 29
90C, 245, 413	Clupea harengus, 91B, 7
Choline receptors, 90C, 29	CO ₂ , 89B, 127; 91A, 749
Choline transport, 89C, 179	CO ₂ production, 90A, 337
Cholinergic binding, 90C, 161	Cockroach central nervous system, 90A,
Cholinergic enzymes, 89C, 87; 90C,	297
245	Cockroaches, 91A, 587
Cholinergic transmission, 89C, 271;	Colchicine, 89A, 197; 90A, 669
91C, 241	Cold acclimation, 89A, 85
Chondrocytes, 91A, 837	Cold adaptation, 89A, 137; 90B, 623
Chromatin proteins, 90B, 91	Cold exposed rats, 90C, 151
Chromodoris funerea, 89B, 275	Cold stress, 91A, 543
Chromosomal proteins, 91B, 103	Collagen, 89B, 147; 90A, 421; 90B, 155
Chromosome aberrations, 89C, 395	Collembola, 91A, 147, 475
Chrysemys picta, 90A, 157; 90B, 243	Colloid osmotic pressure, 90A, 11
Chymosin, 91A, 565	Colonic epithelium, 91A, 71
Chymotrypsin, 89A, 61	Color change in Crustacea, 91C, 171
Ciclosporin, 89C, 375	Colossoma brachypomum, 89A, 675
Ciliary activity, 91C, 99	Colossoma macropomum, 89A, 675
Ciona intestinalis, 90B, 70; 90C, 11	3Columba livia, 89A, 621; 90A, 497; 91A,
Circadian rhythms, 89A, 495; 91C,	165
229	Command neurones, 90A, 17

Comparative Biochemistry and	Crayfish caudal photoreceptor, 91C, 61
Physiology, 90A, 1	Crayfish giant axon, 90C, 351
Comparative energetics, 91A, 195	Crayfish neurons, 90A, 809
Complex II, 89B, 31	Crayfish retinula, 91A, 529
COMT, 91C, 399	Creatine phosphokinase, 89B, 251
Concholepas concholepas, 90B, 77	Creatinine, 91A, 689
Condylactis gigantea, 89C, 229	Cricetomys gambianus, 89A, 705
Conformational matching, 90C, 287	Cricetus cricetus, 89A, 575
Conjugation enzymes, 89C, 221, 225	Crithidia fasciculata, 90C, 391; 91C,
Contraction catch, 91B, 483	321
Cooling, 90C, 95	Crocodile, 90A, 41, 391
Cooling rates, 90A, 99	Crocodile marine ancestry, 89A, 443
Copper, 90C, 69; 91C, 301, 487, 589	Crocodylus johnstoni, 90A, 41
Corbicula japonica, 90A, 349	Crocodylus niloticus, 89A, 443
Corpus allatum, 91A, 333	Crocodylus porosus, 89A, 443; 90A, 23;
Corticosterone, 89A, 415; 90A, 355;	91B, 39
91A, 513	Crustacean cardiac ganglion, 91C, 205
Cortisol, 89A, 495; 90A, 367, 413,	Crustacean haemolymph, 91A, 523
515; 90C, 445; 91A, 271	Crystallin, 89B, 433
Coryphaenoides armatus, 89A, 215	Crystal violet, 90C, 1
Co-transporting protein, 90A, 687	CSF-1, 89B, 551
Coturnix chinensis, 91A, 543	Ctenidium, 91C, 99
Coturnix coturnix, 89A, 93, 415,	Culex pipiens, 89B, 5
531; 89C, 15; 90A, 99	Cuticular hydrocarbons, 91B, 371, 685
Coturnix japonicus, 89A, 415, 531;	Cuticular proteins, 90B, 321
89B, 79; 90A, 291	Cyanide, 91C, 469
Coturnix pectoralis, 91A, 543	Cyclic AMP, 89B, 577; 89C, 31; 90A,
Courtship stridulation, 90A, 189	681, 693; 90C, 275; 91B, 117
Crab gills, 89A, 100	Cyclic nucleotides, 91C, 75
Crangon crangon, 90A, 397; 91A, 457;	Cyclopterus lumpus, 91B, 647
91C, 459	Cylobutyrol, 90A, 834
Crassostrea gigas, 89B, 51; 90B, 70	Cynops pyrrhogaster, 91A, 129
Crassostrea virginica, 90A, 183,	Cynoscion nebulosus, 91B, 17
279; 90B, 361; 91A, 603	Cypermexthrin, 91C, 371
Crataegus phaenopyrum, 89A, 471	Cyprinidae, 91B, 697
Crayfish, 91A, 571	Cyprinus carpio, 89A, 605; 89B, 737;

89C, 277; 90B, 155; 90C, 69, 257; 91A, 451, 749, 759; 91B, 331, 697, Diceros bicornis, 91A, 343 723 2,4-Dichlorophenoxyacetic acid, 90C, 65 Cysteine, 91B, 301, 309 Didelphis virginiana, 89A, 113, 119; D-cysteinolic acid, 90B, 151 90A, 441 Cystic fibrosis, 90A, 835 Diet, 89C, 57 Cytochalasin-B, 89A, 197 Dietary lipids, 90B, 767 Cytochrome b, 89B, 31 Dietary protein-energy, 89A, 11 Cytochrome c oxidase, 89B, 339 Diet composition, 91A, 475 Cytochrome P-448, 89C, 165 Digastric reflexes, 89C, 383 Cytochrome P-450, 89C, 221, 225 Digenean parasite, 90C, 451 Cytoskeleton, 90A, 807 Digestibility, 91A, 509 Cytosolic inhibitors, 90B, 125 Digestion, 89A, 19; 90A, 23 Digestive motor response, 90A, 241 Dacus umbrosus, 91B, 85 Dihydropyridine, 89C, 39 Daphnia magna, 90C, 123, 341; 91C, Dik-dik antelope, 90A, 121; 91A, 1 465 Diltiazem, 90C, 465 DDE, 89C, 361 Diogenes ovatus, 89B, 209 Decticus albifrous, 90A, 257 Dioptric system, 91A, 61 Deer antler tissue, 89A, 279 Dipetalonema viteae, 91C, 517 Deer mice, 89C, 113; 91A, 535 Diphenylhidantoin, 90C, 203 2,3-diphosphoglycerate, 89B, 105 Deltamethrin, 89C, 179; 91C, 337 2-deoxy-D-glucose, 89A, 113, 119 Diplodon delodontus, 89B, 465 Desmodus rotundus, 90A, 141 Disaccharidases, 91B, 751 Destruxins, 90C, 403 Discoglossus pictus, 89B, 363 Detoxication mechanisms, 90C, 1 Dissostichus mawsoni, 90B, 529 Detoxification, 90C, 155; 91B, 257 Distemper virus, 91B, 691 Dexamethasone, 89B, 79; 90A, 309, Diterpene, 91B, 293 577, 583; 90C, 133; 91C, 395 Diving bird, 91B, 273 Deuterium oxide, 90A, 435 DMPP, 89C, 271 DFP, 91C, 575 DNA, 89B, 75 Dialyzed neurons, 90C, 29 DNA base composition, 90B, 715 Diamox, 91A, 487 DNA genome, 89B, 1 Diapause, 91A, 157 DNA methyltransferase, 91C, 603 DNA polymerase Y, 91B, 525 Diapause hormone, 91B, 631 DNA-synthesis, 89B, 271 Dicentrarchus labrax, 89B, 137;

DNP, 90C, 459; 91A, 487	ECG, 90A, 115; 91A, 749, 759
Dolichols, 91B, 193	Echinococcus granulosus, 91A, 203
Donax denticulatus, 89A, 487	Echinococcus multilocularis, 91B, 133
Donax serra, 90A, 63	Echinodermata, 91A, 317
Dopamine, 89C, 121, 141, 197; 90C,	Eel gut, 90A, 818
83, 123, 173, 183; 91C, 133, 403,	EFA, 91A, 279
541	Efferent input, 90A, 269
Dopaminergic system, 90C, 89; 91C,	Egg white proteins, 89B, 79
371	Egg yolk proteins, 89B, 399
DOPA-oxidase, 89B, 5	Ehrlich cells, 90A, 809, 810
Doritheutis plei, 90B, 341	Eisenia foetida, 89B, 347; 91B, 187
DPC, 90A, 315	Elaphas maximus, 89A, 313
DRG cells, 89B, 160	Elastase, 90B, 81
Drinking, 90A, 291	Electric field, 90A, 253
Dromaius novaehollavdiae, 89B, 27	Electrode design, 91A, 769
<u>Drosophila</u> , 91B, 149, 155	Electrogenic sodium pump, 91C, 43
Drosophila grimshawi, 89B, 557	Electrolyte intake, 91A, 513
Drosophila melanogaster, 89B, 143,	<u>Eledone</u> , 90B, 275
263; 90B, 291; 90C, 215, 439; 91B,	Elephant blood, 89A, 313
149, 155	Elminius modestus, 91A, 849
Drug responses, 91C, 613	Emesis, 91A, 721
Duck pituitary cells, 91C, 389	Endoscopes, 91A, 305
Dufour gland alkenes, 91B, 729	β -endorphin, 90A, 309
Dugesiella echina, 90C, 381	End plate currents, 90B, 571
DUM neurons, 91A, 37	Energy, 91A, 765
Dwarfed poodles, 91A, 15	Energy balance, 89A, 219
Dwarf pigs, 91A, 15	Energy charge, 91B, 483
Dyakia (Quantula) striata, 89A, 391	Energy economy, 91A, 263
Dytiscus verticalis, 89A, 409	Energy metabolism, 91A, 549, 603
	Engraulis encrasicholus, 91B, 677
Earthworm (also see Lumbricus),	Enzymes, 91B, 459
89A, 541	Ephydatia fluviatilis, 91B, 237
Ecdysone, 91A, 157	Epinephrine (see also adrenaline), 89C,
Ecdysone 20-monooxygenase, 91C, 139	267; 91A, 715; 91C, 385
Ecdysteroids, 89A, 223, 503; 90B,	Eptatretus cirrhatus, 89A, 247

Equus caballus, 89A, 401; 91A, 599

261; 91B, 257; 91C, 111

ERG, 90A, 435 Ergometrine, 89C, 121 Ergosta-4,24(28)-dien-3-one, 90B, Exercise, 90A, 53 113 Erinaceus europaeus, 91B, 783 Eriocheir sinensis, 89A, 163;90A, 201, 315, 822 Eructation, 91A, 639 Erythrocytes, 89B, 309; 91B, 617 Eye-lens reagents, 90B, 721 Escherichia coli, 91B, 793 Eserine sulphate, 90C, 215 Esox lucius, 89C, 197 Esox lucrus, 91C, 503 Esterase, 90B, 427; 91B, 741 Esterase activities, 91B, 437 Estradiol, 90A, 355 Estradiol-17 8, 90A, 413 Estrogen, 89A, 615; 89B, 79 Estrogen receptor isoforms, 91B, 517 Fat body, 90B, 329; 91A, 175 Ethanol (see also alcohol), 89B, 299; 90A, 341; 90C, 79 N-ethyl-maleimide, 90A, 661 Ethyl methanesulfonate, 89C, 15 Eudistylia vancouveri, 90B, 301 Eudyptula minor, 89A, 383, 387 Eugerres plumieri, 89A, 377 Euglena gracilis, 89B, 565; 89C, 287, 293; 90B, 897; 91B, 279 Euhadra peliomphala, 91A, 353 Eukaryotic transmembrane signal transduction, 90A, 209 Euphausia superba, 90B, 467, 499, Ferritin receptor, 90B, 837 507 Europium, 91A, 339 Evolutionary futures for mankind, 90A, 5

Evolution of neurotransmitter, 89C, 241 Excretory organs, 90A, 79 Exocrine acinar cells, 90A, 717 Exocrine pancreas, 90A, 321 Exogenous proteins, 90A, 265 Extracellular fluids, 90A, 11 Eye lens proteins, 90B, 791 Eyestalk, 91A, 245 F2,6P, 90B, 897 F344 rats, 89C, 333 Faecal losses, 90A, 63, 71 Fasciolaria tulipa, 90B, 869 Fast excitatory axon, 90A, 341 Fast flickering, 90A, 297 Fasting, 90A, 157; 91A, 679 Fat supply, 91A, 279 Fatty acid, 89B, 39, 747; 90A, 563; 90B, 103; 91B, 165 Fatty acid metabolism, 91B, 25 Feeding, 90C, 335 Feeding performance, 89A, 131 Feeding relations, 89A, 149 Feed restriction, 91A, 67 Fenvalerate, 91C, 371 Fermentation, 90A, 563 Ferritin, 89B, 355, 507; 91A, 259; 91B, 159 Fertilization, 90B, 69 ß-Fibrinogenase, 89B, 509

Fibrinolytic activity, 90A, 409

Filarial helminth, 91C, 517

Fish chromatophores, 91A, 27	GABA-gated chloride channel, 91C, 365
Fish eggs, 91C, 503	GABA-T, 90C, 61
Fish eye movement, 90B, 570	GAD, 89C, 241
Fish hearts, 91B, 359	Gadus morhua, 89C, 249
Fish immunology, 89A, 25	Galathea strigosa, 90B, 53
Fish muscle, 91B, 723	Gallbladder, 90C, 267
Fish skeletal muscle, 91B, 473	Gallotia galloti, 89B, 1, 131; 90C,
Fitosterol, 89B, 465	203; 91A, 71
Fluosol-DA, 89C, 127	Gallus domesticus, 89B, 227, 507; 90B,
Fluphenazine, 91B, 139	187, 205, 243, 311, 453, 767; 90C, 461;
FMRFamide, 90C, 73, 207, 347; 91A,	91A, 327, 773; 91B, 1, 39, 789
609, 613; 91C, 565	Gallus gallus, 89C, 271
Food intake, 91A, 621	Gasterosteus aculeatus, 90B, 227
Formica malpighian tubules, 90A,	Gastric digestion, 91A, 305
820	Gastrin 17, 91C, 565
Formica polyctena, 89B, 489; 91B,	Gastrin/pentagastrin, 90C, 41
729	Gastropod radula, 90C, 207
Forskolin, 90A, 824	Gastrulation, 90C, 47, 55
Free amino acids, 90A, 349; 91A, 101	Gazella dorcas, 90A, 225
Frog, 89B, 251; 89C, 241	Gc protein, 90B, 193
Frog heart, 89C, 71	GDH, 91B, 315
Frog kidney, 90A, 471	Gecarcinus lateralis, 90C, 89; 91C, 139
Frog liver, 90B, 173	Gene structure, 91B, 389
Frog skin, 90A, 673, 808; 91C, 281	Genetic polymorphism, 89A, 75
Frog skin ion transport, 90A, 525	Genome composition, 89B, 1
Frog tongue, 89A, 683	Genomic DNA, 90B, 715; 91B, 707
Fructose 1,6-diphosphate, 90B, 401	Geoclemys reevesii, 91A, 377
Fructose-2,6-bisphosphate, 89B, 131;	Geodia cydonium, 90B, 113; 91B, 125
90B, 453	Gerbillus campestris, 90B, 209
Fumarate reductase, 89B, 31	Gerbillus perpallidus, 90A, 169
Fundulus heteroclitus, 89A, 655;	Geukensia demissa, 90C, 21
90C, 267	GH, 91A, 15, 67
Furosemide, 90A, 687, 808	Giant fibre, 90C, 107
	Giardia lamblia, 91B, 137
G ₂ , 90A, 233	Gill epithelium, 90A, 635

Gill surface area, 89A, 243

GABA, 89C, 241; 90C, 381

GI motility, 89C, 343	Glycolysis, 89B, 91
Giraffa camelopardalis, 91A, 347	Glycoprotein, 91B, 783
Gizzard, 89B, 27	α ₁ B-glycoprotein, 90B, 751
Glial cells, 90A, 297, 808; 90C, 61	Glycosylated haemoglobin, 90A, 229
β _l -globulin inhibitor, 90B, 81	Glyptocidaris crenularis, 90C, 305
Glomerular filtration, 89A, 339	GMP, 90B, 91
Glucagon, 91A, 621, 665	GnRH, 90A, 309
Glucagon control, 90B, 285	Goat, 90A, 229
Glucocorticoids, 90C, 133	Gobio gobio, 91B, 697
Glucocorticosteroids, 91A, 789	Goitrogens, 90A, 449
Gluconeogenesis, 91A, 451; 91B, 11,	Gold thioglucose, 90C, 461
339, 701	Golfingia gouldi, 90C, 113
Glucose, 91A, 279	Gonad, 89B, 9
Glucose 1,6-P ₂ , 90B, 739	Gonadal size, 90A, 429
D-glucose fluxes, 90A, 651	Gonadosomatic index, 89A, 7
Glucose 6-phosphate dehydrogenase,	GOT, 90A, 237
89B, 517	G proteins, 90A, 209
Glucose transport, 91A, 203	GPT, 90B, 773
Glucose turnover, 91A, 493	Granulosa cells, 90C, 225
Glucose uptake, 91A, 363	Grasshoppers, 89A, 51
β -D-glucosidase, 91B, 111	Gryllus bimaculatus, 89C, 237
Glucuronic, 89B, 221	Gryllus domesticus, 89B, 15
L-glutamate binding, 90C, 281	GSH, 91C, 301, 425
Glutamate dehydrogenase, 90B, 329	GST, 89B, 471; 89C, 225
Glutamine synthetase, 91B, 789	GTP, 89B, 119
Glutathione, 89B, 197, 471	Guanine nucleotide, 89B, 119
Glutathione reductase, 90B, 335	Guinea pig, 90C, 101, 241, 445
Gluteus medius, 91A, 815	Guinea-pig stomach, 91C, 311
Glycerophospholipid, 89A, 19; 89C,	
311	H ₂ 0 ₂ , 89B, 539
Glycine, 89C, 293	Haemagglutination, 91B, 657
Glycine uptake, 89C, 287	Haematology, 90A, 117
Glycogen, 89A, 495	Haemerythrin, 89B, 453
Glycogenolysis, 90B, 285; 91A, 451	Haemolymph, 90A, 31; 91A, 323
Glycogen phosphorylase, 89B, 233	Haemopexin, 90B, 159; 91B, 467
Glycogen synthase, 89B, 9; 90B, 361	Haemopis sanguisuga, 89A, 67, 187

Hagfish, 89A, 247	90B, 869; 91A, 581; 91B, 577, 597
Hair coat structure, 91A, 469	Hemoglobin, 89A, 541; 89B, 441; 90B,
Halichoeres poecilopterus, 91A, 183	159, 301, 557, 579, 585, 631; 91A, 109;
Halichondria panicea, 91B, 125	91B, 663, 755
Haliotis iris, 89B, 409	Hemolymph, 90A, 31, 151; 91A, 269, 323
Haliotis kamtschatkana, 89A, 405	Hemolytic agents, 90A, 453
Halogen accumulation, 90A, 397	Hemorrhage, 91A, 807
Haloperidol, 90C, 89, 367, 451	Henle's loop, 90A, 757
Hamster, 89A, 575	Hepatic drug metabolism, 90C, 13; 91C,
Hamster liver, 91B, 79	419
Haplosporidium nelsoni, 90A, 183;	Hepatic metabolism, 90B, 311
91A, 603	Hepatic phase II biotransformation,
Hatching, 91C, 333	90C, 417
Heart, 90C, 133	Hepatocytes, 91B, 339, 557
Heart rates, 89A, 247; 91A, 431	Herbicides, 90C, 373
Heat balance, 91A, 165	Heterochromatin, 89B, 1
Heat production, 91A, 463	Heterosis, 89B, 5
Heat shock, 90B, 623; 91B, 149, 155	H ⁺ excretion, 91A, 53
Heavy metals, 91C, 459	Hg, 89C, 287
Heavy metals, 91C, 459 HeLa, 91B, 477	Hg, 89C, 287 125 _{I-hGH} , 91A, 15
HeLa, 91B, 477	¹²⁵ I-hGH, 91A, 15
HeLa, 91B, 477 Helicella virgata, 89C, 267	125 _{I-hGH} , 91A, 15 5HIAA, 89C, 173; 90C, 123
HeLa, 91B, 477 Helicella virgata, 89C, 267 Helice tridens, 89C, 236	125 _{I-hGH} , 91A, 15 5HIAA, 89C, 173; 90C, 123 Hibernation, 89A, 575; 90A, 233; 91A,
HeLa, 91B, 477 Helicella virgata, 89C, 267 Helice tridens, 89C, 236 Heliothis virscens, 89B, 317; 90A,	125 _{I-hGH} , 91A, 15 5HIAA, 89C, 173; 90C, 123 Hibernation, 89A, 575; 90A, 233; 91A, 235; 91B, 11
HeLa, 91B, 477 Helicella virgata, 89C, 267 Helice tridens, 89C, 236 Heliothis virscens, 89B, 317; 90A, 151; 90B, 117	125 _{I-hGH} , 91A, 15 5HIAA, 89C, 173; 90C, 123 Hibernation, 89A, 575; 90A, 233; 91A, 235; 91B, 11 <u>Himatismus</u> , 91B, 371
HeLa, 91B, 477 Helicella virgata, 89C, 267 Helice tridens, 89C, 236 Heliothis virscens, 89B, 317; 90A, 151; 90B, 117 Heliothis zea, 90B, 117; 91C, 437	125 _{I-hGH} , 91A, 15 5HIAA, 89C, 173; 90C, 123 Hibernation, 89A, 575; 90A, 233; 91A, 235; 91B, 11 <u>Himatismus</u> , 91B, 371 Hindgut, 90A, 563
HeLa, 91B, 477 Helicella virgata, 89C, 267 Helice tridens, 89C, 236 Heliothis virscens, 89B, 317; 90A, 151; 90B, 117 Heliothis zea, 90B, 117; 91C, 437 Helium-oxygen, 90A, 99	125 _{I-hGH} , 91A, 15 5HIAA, 89C, 173; 90C, 123 Hibernation, 89A, 575; 90A, 233; 91A, 235; 91B, 11 <u>Himatismus</u> , 91B, 371 Hindgut, 90A, 563 Hippocampus, 89A, 37; 90C, 161
HeLa, 91B, 477 Helicella virgata, 89C, 267 Helice tridens, 89C, 236 Heliothis virscens, 89B, 317; 90A, 151; 90B, 117 Heliothis zea, 90B, 117; 91C, 437 Helium-oxygen, 90A, 99 Helix, 91C, 165	125 _{I-hGH} , 91A, 15 5HIAA, 89C, 173; 90C, 123 Hibernation, 89A, 575; 90A, 233; 91A, 235; 91B, 11 <u>Himatismus</u> , 91B, 371 Hindgut, 90A, 563 Hippocampus, 89A, 37; 90C, 161 <u>Hirudo medicinalis</u> , 89C, 31
HeLa, 91B, 477 Helicella virgata, 89C, 267 Helice tridens, 89C, 236 Heliothis virscens, 89B, 317; 90A, 151; 90B, 117 Heliothis zea, 90B, 117; 91C, 437 Helium-oxygen, 90A, 99 Helix, 91C, 165 Helix aspersa, 89A, 351; 89C, 121;	125 _{I-hGH} , 91A, 15 5HIAA, 89C, 173; 90C, 123 Hibernation, 89A, 575; 90A, 233; 91A, 235; 91B, 11 <u>Himatismus</u> , 91B, 371 Hindgut, 90A, 563 Hippocampus, 89A, 37; 90C, 161 <u>Hirudo medicinalis</u> , 89C, 31 Histamine, 89C, 271, 355; 91C, 75, 385,
HeLa, 91B, 477 Helicella virgata, 89C, 267 Helice tridens, 89C, 236 Heliothis virscens, 89B, 317; 90A, 151; 90B, 117 Heliothis zea, 90B, 117; 91C, 437 Helium-oxygen, 90A, 99 Helix, 91C, 165 Helix aspersa, 89A, 351; 89C, 121; 91C, 525	125 _{I-hGH} , 91A, 15 5HIAA, 89C, 173; 90C, 123 Hibernation, 89A, 575; 90A, 233; 91A, 235; 91B, 11 Himatismus, 91B, 371 Hindgut, 90A, 563 Hippocampus, 89A, 37; 90C, 161 Hirudo medicinalis, 89C, 31 Histamine, 89C, 271, 355; 91C, 75, 385, 613
HeLa, 91B, 477 Helicella virgata, 89C, 267 Helice tridens, 89C, 236 Heliothis virscens, 89B, 317; 90A, 151; 90B, 117 Heliothis zea, 90B, 117; 91C, 437 Helium-oxygen, 90A, 99 Helix, 91C, 165 Helix aspersa, 89A, 351; 89C, 121; 91C, 525 Helix neurons, 91C, 541	125 _{I-hGH} , 91A, 15 5HIAA, 89C, 173; 90C, 123 Hibernation, 89A, 575; 90A, 233; 91A, 235; 91B, 11 Himatismus, 91B, 371 Hindgut, 90A, 563 Hippocampus, 89A, 37; 90C, 161 Hirudo medicinalis, 89C, 31 Histamine, 89C, 271, 355; 91C, 75, 385, 613 Histaminergic inhibition, 91C, 75
HeLa, 91B, 477 Helicella virgata, 89C, 267 Helice tridens, 89C, 236 Heliothis virscens, 89B, 317; 90A, 151; 90B, 117 Heliothis zea, 90B, 117; 91C, 437 Helium-oxygen, 90A, 99 Helix, 91C, 165 Helix aspersa, 89A, 351; 89C, 121; 91C, 525 Helix neurons, 91C, 541 Helix pomatia, 89A, 179; 90C, 29;	125 _{I-hGH} , 91A, 15 5HIAA, 89C, 173; 90C, 123 Hibernation, 89A, 575; 90A, 233; 91A, 235; 91B, 11 Himatismus, 91B, 371 Hindgut, 90A, 563 Hippocampus, 89A, 37; 90C, 161 Hirudo medicinalis, 89C, 31 Histamine, 89C, 271, 355; 91C, 75, 385, 613 Histaminergic inhibition, 91C, 75 Histidine, 89B, 197,245; 91B, 207, 285 Histidine decarboxylase, 90B, 221
HeLa, 91B, 477 Helicella virgata, 89C, 267 Helice tridens, 89C, 236 Heliothis virscens, 89B, 317; 90A, 151; 90B, 117 Heliothis zea, 90B, 117; 91C, 437 Helium-oxygen, 90A, 99 Helix, 91C, 165 Helix aspersa, 89A, 351; 89C, 121; 91C, 525 Helix neurons, 91C, 541 Helix pomatia, 89A, 179; 90C, 29; 91C, 337	125 _{I-hGH} , 91A, 15 5HIAA, 89C, 173; 90C, 123 Hibernation, 89A, 575; 90A, 233; 91A, 235; 91B, 11 Himatismus, 91B, 371 Hindgut, 90A, 563 Hippocampus, 89A, 37; 90C, 161 Hirudo medicinalis, 89C, 31 Histamine, 89C, 271, 355; 91C, 75, 385, 613 Histaminergic inhibition, 91C, 75 Histidine, 89B, 197,245; 91B, 207, 285 Histidine decarboxylase, 90B, 221
HeLa, 91B, 477 Helicella virgata, 89C, 267 Helice tridens, 89C, 236 Heliothis virscens, 89B, 317; 90A, 151; 90B, 117 Heliothis zea, 90B, 117; 91C, 437 Helium-oxygen, 90A, 99 Helix, 91C, 165 Helix aspersa, 89A, 351; 89C, 121; 91C, 525 Helix neurons, 91C, 541 Helix pomatia, 89A, 179; 90C, 29; 91C, 337 Hemicentrotus pulcherrimus, 89B, 517	125 _{I-hGH} , 91A, 15 5HIAA, 89C, 173; 90C, 123 Hibernation, 89A, 575; 90A, 233; 91A, 235; 91B, 11 Himatismus, 91B, 371 Hindgut, 90A, 563 Hippocampus, 89A, 37; 90C, 161 Hirudo medicinalis, 89C, 31 Histamine, 89C, 271, 355; 91C, 75, 385, 613 Histaminergic inhibition, 91C, 75 Histidine, 89B, 197,245; 91B, 207, 285 Histidine decarboxylase, 90B, 221 7, Histiobranchus bathybius, 89A, 215
HeLa, 91B, 477 Helicella virgata, 89C, 267 Helice tridens, 89C, 236 Heliothis virscens, 89B, 317; 90A, 151; 90B, 117 Heliothis zea, 90B, 117; 91C, 437 Helium-oxygen, 90A, 99 Helix, 91C, 165 Helix aspersa, 89A, 351; 89C, 121; 91C, 525 Helix neurons, 91C, 541 Helix pomatia, 89A, 179; 90C, 29; 91C, 337 Hemicentrotus pulcherrimus, 89B, 517, 687; 90B, 53; 91B, 525	125 _{I-hGH} , 91A, 15 5HIAA, 89C, 173; 90C, 123 Hibernation, 89A, 575; 90A, 233; 91A, 235; 91B, 11 Himatismus, 91B, 371 Hindgut, 90A, 563 Hippocampus, 89A, 37; 90C, 161 Hirudo medicinalis, 89C, 31 Histamine, 89C, 271, 355; 91C, 75, 385, 613 Histaminergic inhibition, 91C, 75 Histidine, 89B, 197,245; 91B, 207, 285 Histidine decarboxylase, 90B, 221 7, Histiobranchus bathybius, 89A, 215 Histones, 91B, 69

809	Hyperinsulinemia, 91B, 691
Homeothermy, 89A, 125	Hyperosmotic conditions, 90A, 349
Homing, 89A, 621	Hyperphagia, 89B, 127
Honey bees, 91C, 479	Hypertrehalosaemic, 91A, 333
Hoplostethus atlanticus, 90A, 501	Hypoalbuminaemia, 89C, 375
Hormone esterases, 90B, 117	Hypogravity, 91A, 425
Horse, 91A, 599	Hypomagnesaemia, 89C, 375
Housefly head, 91C, 365	Hypostomus punctatus, 91C, 327
HPLC, 91B, 483	Hypovolemic shock, 90A, 127
5HT (also see Serotonin), 89A, 1,	Hypoxia, 89A, 97, 257; 89C, 57; 91A,
89C, 5, 101, 197, 257, 327; 90A,	797; 91C, 35
839; 90C, 123, 173, 451; 91A, 405;	Hyppotragus equinus, 89A, 547
91C, 21, 85, 133, 165, 205, 281, 307	Hyrax, 90A, 563
5-HT agonists, 90C, 249	
Human evolution, 90A, 5	Ictalurus melas, 90B, 285
Huso huso, 90B, 393	Ictalurus punctatus, 89C, 153; 90A,
Hyaena hyaena, 91B, 783	103; 91A, 481; 91B, 535; 91C, 293
Hyalophora cecropia, 90A, 821	IGF, 91B, 229
Hyaluronidase, 90B, 745	IGF-I, 91A, 15
Hyas araneus, 89A, 243	IgM-like, 89B, 737, 743
Hyboscolex longiseta, 89B, 441	Illumination, 91B, 279
Hydra attenuata, 91C, 553	Imidazole, 91B, 207
Hydra magnipapillata, 91A, 734, 740	Immune challenge, 89C, 127
2-hydrazinoethanol, 91C, 607	Immunochemistry, 89B, 43
Hydrocortisone, 90A, 379	Immunoradiometric assay, 89B, 355
Hydrolases, 90B, 433	Impala, 89A, 547
Hydrostatic pressure, 89A, 215	Incubation time, 91A, 417
3-hydroxybutyrate, 89A, 309	Indirect tissue electrophoresis, 90B,
D-3-hydroxybutyrate dehydrogenase,	791
90C, 79	Indole, 90C, 249
Hydroxylysyl-P, 91B, 531	Information transfer, 91B, 389
Hydroxypyridinium, 91B, 531	Innervation of the gills, 90C, 165
Hymenolepis diminuta, 91B, 5, 59	Inorganic carbon transport, 90B, 639
Hyperglycaemia, 89B, 55	Insect cuticle, 89B, 317, 595
Hyperglycemic hormone, 89A, 329;	Insect epithelia, 90A, 643
91B, 345	Insecticide-insensitive, 90C, 221

Kanamycin, 90A, 161 Insect intestine, 89A, 19 Insect motor axon, 90A, 257 Kareius bicoloratus, 89B, 147 Insulin, 89A, 79, 103; 91A, 279, 665 KCl cotransport, 90A, 533 Insulin-like growth factors, 91B, 229Keratins, 89B, 483 Intestinal absorption, 90C, 179 Ketone bodies, 89A, 309 Intestinal alkaline phosphatase, Kidneys, 91B, 763 Kidney function, 89A, 343, 535 90B, 709 Intestinal epithelial cells, 90A, 233 Intestinal fluid transport, 90A, 603 Lacerta lepida, 89B, 1 Intracellular pH, 90A, 543 <u>Lacerta viridis</u>, 89B, 1 Intraneuronal Na⁺, K⁺, Cl⁻, 89A, 67 Lactase, 90B, 371 Intra-rumen pressure, 90A, 481 Lactate, 89A, 693; 91A, 299, 523 Intraventricular calcium and sodium, Lactation, 90A, 459 89A, 475 Lampetra planeri, 89B, 323 Inulin, 91A, 689 LA/N, 89A, 371 Invertebrate CNS, 89C, 233 Land crabs, 91C, 139 Iodoacetamide, 91A, 487 Lanthionine, 91B, 301, 309 Ion channel, 90A, 717 Larus dominicanus, 91A, 727 Ionic and osmotic regulation, 89A, Lasiodora erythrocythara, 89A, 661 377 Latrodectus katipo venom, 89C, 117 LDH, 89B, 323, 731; 90B, 77, 543, 833; Ionic currents, 89A, 1 Ionic pumping, 91C, 43 91A, 817; 91B, 273, 671 Ionic surroundings, 89A, 103 LDL, 91B, 331 Iopanoic acid, 90A, 449 Lead, 89C, 211, 215, 287 Iron, 89A, 559; 90A, 117; 91B, 159 Learning, 91A, 675 Isoprenaline, 90C, 257 Lectins, 91B, 657 Isoprenoid, 91B, 293 Leech (see also Hirudo), 89C, 31 Isoproterenol, 89C, 333; 90C, 367, Leipoa ocellata, 90A, 445 Leipotherapon unicolor, 89A, 587 397; 91C, 613 Isozymes, 91B, 197 Leiurus quinquestriatus, 90C, 173 Leopardus pardalis, 91B, 783 Lepomis macrochirus, 89A, 65; 90C, 267 Jaculus orientalis, 91A, 665 Leptodactylus ocellatus, 90A, 249 Jelly coat, 90A, 265 Leptograpsus variegatus, 89B, 285 Jellyfish envenomations, 91C, 79

Leptonyches weddelli, 91B, 511

Leu-enkephalin, 91C, 565

Juvenile hormone III, 89B, 15

Leukotriene, 89B, 375
Levamisole, 91C, 517, 525
LH, 90C, 225
Li ⁺ , 90A, 525
Libellula julia, 91C, 499
Lichia amia, 90A, 71
Ligia exotica, 89C, 236
Limax marginatus, 89C, 237
Limax maximus, 89A, 579
Limulus photoreception, 91C, 229
Limulus polyphemus, 90C, 113
Liocarcinus depurator, 89A, 243
Lipara similis, 91A, 91
Lipids, 89B, 595; 91B, 165, 711
Lipid dynamics, 90B, 679
Lipid energetic values, 89B, 51
Lipid fluidity, 89B, 585
Lipid metabolism, 90B, 235
Lipid oxidative activities, 91B,
Lipid peroxidation, 89B, 695; 90B
785; 90C, 69
Lipid storage system, 90B, 529
Lipoamide dehydrogenase, 90B, 335
Lipofuscin, 90B, 7
Lipogenesis, 89B, 127; 91C, 579
Lipolysis, 91A, 665
Lipophorin, 89B, 95
Lipoproteins, 91B, 39
Lipovitellin, 89B, 399
Lipoxygenases, 89B, 531
Liriope tetraphylla, 90C, 385
Lithium, 91A, 457
Liver, 89B, 715; 91B, 25
Liver microsomes, 90C, 101
Lizards, 89B, 1, 131; 90A, 41
Liza richardsonii, 90A, 71

Lobster hemocyanin, 91A, 445 Locusta migratoria, 89B, 163; 90C, 275; 91A, 653 Loligo opalescens, 91A, 557 Loligo pealei, 89C, 179; 90C, 317 Lophius americanus, 91B, 663 Lophius budegassa, 90B, 95 Lophius piscatorius, 90B, 95 Low density lipoprotein, 90B, 297 Luciferin, 91B, 143 Lumbricus terrestris, 89A, 541; 89C, 133; 90B, 301; 90C, 107; 91B, 577 Lumbrinereis fragilis, 91C, 377 Luminescent capability, 89A, 203 Lutein, 90B, 131; 91B, 563 Lymnaea stagnalis, 89B, 55; 90A, 269, 822; 90C, 373; 91A, 387 Lymph esterases, 91B, 171, 179 Lymphocytes, 89A, 25 Lymphoid tissue, 89C, 127 Lymphoma, 89B, 43 Lynx lynx, 91B, 783 Lysine, 90A, 577; 91B, 69 Lysine transport, 89A, 61 Lysozyme, 91B, 187, 793 Lysyl-P, 91B, 531 Lytechinus variegarus, 90C, 113 Liver-somatic index, 89A, 7 Luciferin, 89A, 203 Luteinizing hormone, 90A, 355 Lysine, 89A, 305 Lytechinus pictus, 90C, 47, 55 Macaca mulatta, 91B, 783 Macrobdella decora, 90B, 301

Lobodon carcinophagus, 90B, 367, 371

Macrobrachium borellii, 91B, 711	Megalobulimus, 90A, 115
Macrobrachium carcinus, 91A, 105	γ -melanocyte-stimulating hormone,
Macrobrachium rosenbergii, 90A, 85	91B, 365
Macrophages, 89B, 539	Melanophores, 90A, 147; 91C, 85
Macrophage functions, 91A, 115	Melanosomes, 90B, 397
Macropus fuliginosus, 89A, 559	Melanosynthesis, 89B, 715
Macrotermes mulleri, 91B, 449, 459	Meleagris gallopavo, 91C, 507, 607
Macruonus novaezelandiae, 90A, 501	Membranes, 91B, 613
Madoqua kirkii, 91A, 1	Membrane permeability, 90A, 661
Magainin, 91C, 281	2-mercaptoethanol, 89C, 191
Magnetic cues, 91A, 87	Mercenaria mercenaria, 89A, 631; 90C,
Magnetic fields, 90A, 57	113; 91C, 589
Maja crispata, 90C, 435	Meriones unguiculatus, 90A, 93; 91A,
Malonyl-CoA, 90B, 179	789
Malotilate, 90C, 13	Merluccius hubbsi, 89A, 7
Malpighian tubules, 91A, 587	Mesocricetus auratus, 90B, 851; 90C,
Maltase, 91B, 751, 766	465; 91B, 79
Mammary blood flow, 91A, 21	Metabolic adaptation, 89A, 137
Mammary gland, 91B, 517	Metabolic compensation, 89A, 125
Mammary secretion, 90B, 163	Metabolic cost, 89A, 93
Mammary tissue, 89B, 709	Metabolic hormone profiles, 90B, 11
Mammary tumour, 89B, 709	Metabolic rate, 89A, 79; 90A, 361;
Manduca sexta, 90A, 820, 821, 836;	91C, 333
91A, 549	Metabolism, 89A, 11; 90A, 23; 90B, 521
Manganese, 91C, 449	Metal binding proteins, 91C, 355, 377
Marine Biology, 90B, 459	Metal ions, 89C, 287; 90C, 69; 91C,
Mastocytoma, 90B, 125	589
Mastoparan, 89C, 299	Metallothionein, 89C, 191; 90B, 59,
Mate recognition, 89A, 481	439; 91C, 553
Maurolicus muelleri, 89C, 159	Metamorphosis, 91A, 693
MCPA, 90C, 65	Metarhizium anisopliae, 90C, 403
MDCK cells, 90A, 827	Metasternal gland, 91B, 771
MDH, 89B, 731	Metazolamide, 91A, 253
Mechanosensory interneurons, 91A,	Met-enkephalin, 91A, 613
571, 797	Methionine, 91B, 325
Megacyllene robiniae, 91B, 771	Methionine-cysteine deficiency, 91C,

603	Mnemiopsis leidyi, 91C, 69
Methionine sulfoximine, 91B, 789	Molluscan gut, 90A, 621
Methoxychlor, 89C, 389	Molluscan smooth muscle, 90C, 249
3-methylcholanthrene, 90C, 435	Monoamine oxidase, 89C, 5, 257
n methyl histidine, 89A, 333	Monoclonal antibodies, 91B, 541
Methyl mercury, 91B, 477	Monodelphis domestica, 89A, 85
2-methyloctacosane, 91B, 685	Monooxygenase, 89C, 221
Methyoxyinsulin clearance, 89A, 339	Morantel, 91C, 525
Metopirone-ditartrate, 90C, 445	Morelia spilota, 89A, 645
Metridium senile, 91C, 187	Moro moro, 89A, 215
Mevalonate, 91B, 293	Morone saxatilis, 91C, 355
Mevalonate 5-diphosphate	Mortality, 90A, 405
decarboxylase, 90B, 671	Mosquito, 90C, 145
Mevalonic acid, 90B, 671	Motility, 89C, 343, 349
MFO, 89C, 153; 90C, 41, 435; 91C,	Motor pattern generation, 91C, 115
483	Mouflon, 90B, 159
Mg-ATPase, 90B, 803	Moulting, 90A, 405
Micrococcus lysodeikticus, 91B, 793	Moult inhibiting hormone, 91A, 245
Microcystis aeruginosa, 89C, 207	Mouse purine nucleotide phosphorylase,
Microlitre blood samples, 89A, 593	89B, 427
Micropogon opercularis, 91B, 473	mRNA, 91B, 33, 365, 551
Micropterus salmoides, 90A, 367	MS222, 91A, 749
Microsomal enzyme, 90C, 21, 241	MSH, 91C, 389
Microsomal metabolism, 90C, 429	Mucus, 90A, 816, 818
Microtus montanus, 90A, 195	Mugil cephalus, 89C, 201
Microtus pennsylvanicus, 91A, 679	Mullus barbatus, 89B, 731
Mineralocorticoids, 90A, 583	Musca domestica, 90C, 221; 91C, 365,
Mink, 91A, 469	559
Mitochondria, 89B, 31, 747; 89C, 5,	Muscarinic binding, 90C, 245
257; 90C, 79; 91B, 735; 91C, 443	Muscarinic receptors, 90C, 275
Mitochondrial malic enzyme, 90B, 19	Muscles, 90B, 355; 91B, 483
Mitochondrial protein, 91B, 247	Muscle contraction, 90B, 547
Mitochondrial ribosomes, 89B, 163	Muscle growth, 89A, 333; 89C, 337
Mitogenesis, 89A, 25	Muscle metabolism, 90B, 529
Mitotic activity, 91A, 235	
	Mus musculus, 89A, 339; 91B, 171, 179

Mustela putorius, 91A, 469 Mustela vison, 91A, 469 Myelin proteolipid, 91B, 505 Myliobatus aquila, 89A, 283 Myocardial fibers, 89A, 1 Myoglobin, 89B, 27; 90B, 557; 91B, 273 Myokinase, 89B, 253 Myosin, 90B, 347, 803 Myosin/actin ratio, 89A, 7 Myosin isoenzymes, 91B, 359 Myripristis occidentalis, 91C, 513 Mythimna separata, 91B, 315 Mytilus edulis, 89B, 51; 89C, 53; 90A, 635; 90B, 70, 90C, 249; 91B, 45, 483 Myxicola infundibulum, 90A, 425; 90B, 301 Myxine glutinosa, 91A, 685 Myxocephalus scorpius, 91B, 671 NA (noradrenaline), 89C, 197; 90A,

NA (noradrenaline), 89C, 197; 90A, 269; 90C, 123, 173, 183, 225; 91A, 141, 665; 91C, 385

Na-ATPase, 90B, 341

NaCl movements, 90A, 201

NaCl secretion, 90A, 733

Na+/Cl transport, 90A, 621

Na+-H antiporter, 90A, 539, 551

Na+/H exchange, 90A, 543, 551

Na+, K+-ATPase, 89B, 171, 339; 90A, 303; 90B, 41

Na+ K+-pump, 89A, 103

23Na+ NMR, 90A, 551

Na+ regulation, 90A, 303

Na+ transport, 89A, 157

Nabis alternatus, 90B, 427 Nabis americoferus, 90B, 427 Nabis roseipennis, 90B, 427 Naja naja, 90B, 745 Naja venom enzymes, 90B, 745 β-naphthoflavone, 89C, 165 Nauphoeta cinerea, 90A, 189 Neauthes japonica, 91A, 735, 741 NEM ghosting, 90A, 533 Nephrops norvegicus, 90A, 303 Nereis diversicolor, 89C, 321 Nereis virens, 89B, 347 Nerve-net, 91C, 273 Neuroactive agents, 90C, 55 Neurobiology of invertebrates, 90C, 285 Neuroblastoma, 91B, 477 Neurohumors/neurosecretion in echinoderms, 91C, 151 Neuromodulators, 90A, 20 Neuromuscular electrophysiology, 91C, 517 Neuropeptides, 90C, 73 Neuroprotein, 90A, 501 Neurotensin, 89C, 349 Neurotransmitters of ENS, 90A, 603 Neurotoxin, 90C, 237 Newt, 90A, 475 Newt skin, 91A, 715 Niacin, 90A, 838 Nicorandil, 89C, 45 Nicotine, 89C, 11 Nifurtimox, 90C, 1; 91C, 321 Nitrobenzene, 91C, 413 Nitrogen excretion, 89A, 359; 91A, 317

Nitrogen metabolism, 91A, 499

p-nitrophenyl acetate, 91B, 267

4-nitrophenylphosphatase, 89B, 285	Oestrogens, 90B, 99
NMR, 89A, 449	Ofloxacine, 90C, 179
¹³ C-NMR, 89B, 317, 679	Olfaction, 90B, 1
NMR spectrocopy, 90B, 249	Olfactory bulb, 91A, 377
Nocadozole, 90A, 669	Olfactory deprivation, 89A, 621
Nondiapause, 91A, 157	Olfactory receptor, 91B, 535
Nonionizing radiation, 89A, 511	Olfactory transduction, 91A, 309
Non-protein nitrogenous compounds,	Omeprazole, 90A, 831
90A, 109	Onchidium neuron, 91C, 75
Non-synaptic interaction, 91C, 199	Onchidium verruculatum, 91C, 75
Noradrenaline (see NA)	Oncorhynchus keta, 89A, 437; 89B, 475;
Norepinephrine (see NA)	91B, 365, 551
Notophthalmus viridescens, 90A, 475	Oncorhynchus nerka, 91A, 109
Notothenia neglecta, 91B, 671	Oocyte, 90B, 393
Notropis lutrensis, 91B, 639	Ophiura ophiura, 91A, 821
NPN compounds, 91B, 207	Opioid, 90C, 89
Nucleic acid synthesis, 90B, 389	Optic nerve responses, 89A, 391
Nucleotide contents, 91B, 483	Oral water consumption, 89A, 351
Nutrional budgets, 89A, 471	Orchesella cineta, 91A, 147, 475
Nychthemeral variations, 90C, 173	Orchestia cavimana, 89B, 213
Nyctereutes procyonoides, 89A, 219;	Orconectes limosus, 89B, 171; 90A, 821
91A, 263	Oreochromis mossambicus, 91A, 241
	Oreochromis niloticus, 89A, 637; 91A,
Obese congenic rat, 89A, 371	759
Obesity, 91A, 209; 91B, 691	Organofluorophosphate, 91C, 575
Oceanodroma leucorhoa, 91A, 514, 519	Organophosphorous, 89C, 185
Octodon degus, 91A, 711	Orientation, 89A, 449
Octopamine, 89C, 141; 90C, 173, 183,	Orientation responses, 90A, 57
259, 385, 541	Origins of CBP, 90A, 1
Octopine dehydrogenase, 90B, 77	Ornithine decarboxylase, 89B, 137; 90B,
Octopus tehuelchus, 90B, 317	221
Octopus vulgaris, 91A, 581	Orula ovum, 90C, 155
Odocoileus virginianus, 89A, 279;	Oryctolagus cuniculus, 91C, 493
90A, 309	Oryzias latipes, 89A, 609; 89C, 369
Odour stimuli, 91C, 479	Oryzomys longicaudatus, 91A, 711
Oestradiol-3 ß -D-glucuronide, 90B, 9	9 <u>Oscillatoria agardhii</u> , 89C, 207

31; 91A, 523 Osmoregulation, 90A, 135; 91C, 499 Osmoregulatory responses, 89A, 443 Palinurus mauritanicus, 91A, 445 Osmotic regulation, 90A, 109; 91A, Palmitic acid, 91A, 97 79 Palythoa senegambiensis, 89B, 209 Ostrea edulis, 90B, 875 Pancreas, 91A, 43; 91B, 351 Otoliths, 90A, 501; 91A, 395 Pancreatic lipases, 89B, 671 Ouabain, 89A, 61; 89B, 171; 89C, Panopeus herbstii, 90A, 135 73, 159; 90A, 811, 826; 90B, 341 Panting, 89A, 567 Papilio xuthus, 90C, 83 Outward currents, 89A, 187 Paralichthys olivaceus, 91A, 183 Ovalbumin, 90B, 37 Paralithodes camtschatica, 91A, 245 Ovary, 89B, 15 Ovies musimon, 90B, 159 Paralvinella palmiformis, 91B, 593 Ovis aries, 89A, 401; 90A, 481; Paramelita nigroculus, 89A, 425 91A, 635, 689; 91B, 626 Paramyosin, 90B, 795; 91C, 31 Ovotransferrin, 91B, 541 Paraquat, 89C, 15 Oxygen consumption, 89A, 243, 283, Parasilurus asotus, 91C, 571 347; 90A, 425, 429, 511; 90B, 521, Parasitism, 90A, 279 543; 91A, 91 Parcoblatta fulvescens, 91A, 587 Oxygen uptake of eggs, 91A, 519 Pargyline, 91C, 307 Oxygen stress, 90A, 31 Parietal cell, 90A, 727 Parophrys vetulus, 89A, 257 Oxygen toxicity, 91A, 221 Oxytocin, 90C, 347; 91A, 733 Parotid acini, 90A, 739 Parotid cells, 89A, 173 P, 89C, 277 Parturition, 89C, 315 P 450, 89C, 153; 90C, 13, 21, 41, Parvalbumins, 91B, 697, 723 101, 417 Patch clamp, 90A, 597, 681, 734, 832 Pachycerianthus multiplicatus, 89A, Patiriella calcar, 90B, 141 365 PCB, 89C, 361; 91C, 409 Pachygrapsus crassipes, 89A, 455; PC 12 cells, 90A, 808 90A, 341 PEA, 89C, 5, 257 Pecten maximus, 91C, 35 Pachygrapsus marmoratus, 91C, 85 Pelagic life, 91A, 415 Pagothenia borchgrevinki, 89A, 593 Pagrus major, 89B, 147; 91A, 183, Penguin hematology, 89A, 383 759 Penicillin, 90A, 161 PAH, 90A, 827 Pentachlorophenol, 89C, 377; 91C, 413,

465

Palaemon elegans, 89B, 201; 90A,

Pentagastrin, 89C, 343, 349	91A, 735, 741
Pentatrichomonas hominis, 90B, 419	Pheromone, 89A, 481
Pepsinogen, 89B, 385; 91A, 565	Phoca groenlandica, 89A, 211
Pepsins, 91B, 425	Phoebetria fusca, 91A, 305
Peptide, 89A, 317; 89C, 343; 90C,	Pholcus phalangloides, 91B, 259
347; 91C, 281, 389, 549, 565	Phorbol, 90A, 824
Peptide-specific antibodies, 91B,	Phorbol ester, 89C, 31
467	Phormia regina, 90B, 861
Perfluorocarbon emulsion,89C, 127	Phosphatases, 90B, 173
Periophthalmus cantonens, 91A, 499	Phosphate, 90A, 749
Peiplaneta americana, 89A, 141;	Phosphoadenylate, 90A, 367
89B, 343; 89C, 109, 117, 403; 90A,	Phosphodiesterase, 90B, 745
297; 91A, 37, 797; 91C, 349, 403	Phosphoenolpyruvate carboxykinase, 89B,
Permethrin, 91C, 371	335
Perna perna, 90B, 201	Phosphofructokinase, 89B, 105, 393
Peromyscus maniculatus, 89A, 669;	Phosphoglyceromutase, 89B, 257
89C, 113; 91A, 535	Phospholipid, 89B, 343; 90C, 257
Peroxidation, 89C, 201	Phospholipid/Ca ²⁺ -dependent protein
reloxidation, ose, 201	inosphoripia/ca acpendent protein
Peroxisomal enzymes, 90B, 757	kinase, 90B, 125
Peroxisomal enzymes, 90B, 757	kinase, 90B, 125
Peroxisomal enzymes, 90B, 757 Petrel, 91A, 415	kinase, 90B, 125 Phospholipid fatty acid, 91B, 593
Peroxisomal enzymes, 90B, 757 Petrel, 91A, 415 Petromyzon marinus, 91A, 701	kinase, 90B, 125 Phospholipid fatty acid, 91B, 593 Phospholipid synthesis, 90B, 269
Peroxisomal enzymes, 90B, 757 Petrel, 91A, 415 Petromyzon marinus, 91A, 701 PFK, 90B, 453; 91B, 315	kinase, 90B, 125 Phospholipid fatty acid, 91B, 593 Phospholipid synthesis, 90B, 269 Phosphoproteins, 91B, 125
Peroxisomal enzymes, 90B, 757 Petrel, 91A, 415 Petromyzon marinus, 91A, 701 PFK, 90B, 453; 91B, 315 pH, 89C, 311; 90A, 405; 91C, 333,	kinase, 90B, 125 Phospholipid fatty acid, 91B, 593 Phospholipid synthesis, 90B, 269 Phosphoproteins, 91B, 125 Phosphorylation, 90B, 215
Petroxisomal enzymes, 90B, 757 Petrel, 91A, 415 Petromyzon marinus, 91A, 701 PFK, 90B, 453; 91B, 315 pH, 89C, 311; 90A, 405; 91C, 333, 449, 499	kinase, 90B, 125 Phospholipid fatty acid, 91B, 593 Phospholipid synthesis, 90B, 269 Phosphoproteins, 91B, 125 Phosphorylation, 90B, 215 Phosphorylation site, 91B, 717
Peroxisomal enzymes, 90B, 757 Petrel, 91A, 415 <u>Petromyzon marinus</u> , 91A, 701 PFK, 90B, 453; 91B, 315 pH, 89C, 311; 90A, 405; 91C, 333, 449, 499 pH changes, 89C, 377	kinase, 90B, 125 Phospholipid fatty acid, 91B, 593 Phospholipid synthesis, 90B, 269 Phosphoproteins, 91B, 125 Phosphorylation, 90B, 215 Phosphorylation site, 91B, 717 Phosphotyrosine, 90B, 173
Peroxisomal enzymes, 90B, 757 Petrel, 91A, 415 <u>Petromyzon marinus</u> , 91A, 701 PFK, 90B, 453; 91B, 315 pH, 89C, 311; 90A, 405; 91C, 333, 449, 499 pH changes, 89C, 377 pH-dependence, 91A, 659	kinase, 90B, 125 Phospholipid fatty acid, 91B, 593 Phospholipid synthesis, 90B, 269 Phosphoproteins, 91B, 125 Phosphorylation, 90B, 215 Phosphorylation site, 91B, 717 Phosphotyrosine, 90B, 173 Phosphovitin, 89B, 399, 475 Photobehavior, 91C, 145
Peroxisomal enzymes, 90B, 757 Petrel, 91A, 415 <u>Petromyzon marinus</u> , 91A, 701 PFK, 90B, 453; 91B, 315 pH, 89C, 311; 90A, 405; 91C, 333, 449, 499 pH changes, 89C, 377 pH-dependence, 91A, 659 pH regulation, 90A, 551	kinase, 90B, 125 Phospholipid fatty acid, 91B, 593 Phospholipid synthesis, 90B, 269 Phosphoproteins, 91B, 125 Phosphorylation, 90B, 215 Phosphorylation site, 91B, 717 Phosphotyrosine, 90B, 173 Phosphovitin, 89B, 399, 475 Photobehavior, 91C, 145
Peroxisomal enzymes, 90B, 757 Petrel, 91A, 415 Petromyzon marinus, 91A, 701 PFK, 90B, 453; 91B, 315 pH, 89C, 311; 90A, 405; 91C, 333, 449, 499 pH changes, 89C, 377 pH-dependence, 91A, 659 pH regulation, 90A, 551 Phaeodactylum tricornutum, 91C, 409	kinase, 90B, 125 Phospholipid fatty acid, 91B, 593 Phospholipid synthesis, 90B, 269 Phosphoproteins, 91B, 125 Phosphorylation, 90B, 215 Phosphorylation site, 91B, 717 Phosphotyrosine, 90B, 173 Phosphovitin, 89B, 399, 475 Photobehavior, 91C, 145 Photobiology, 91C, 193
Peroxisomal enzymes, 90B, 757 Petrel, 91A, 415 Petromyzon marinus, 91A, 701 PFK, 90B, 453; 91B, 315 pH, 89C, 311; 90A, 405; 91C, 333, 449, 499 pH changes, 89C, 377 pH-dependence, 91A, 659 pH regulation, 90A, 551 Phaeodactylum tricornutum, 91C, 409 Phaseolin, 89B, 419	kinase, 90B, 125 Phospholipid fatty acid, 91B, 593 Phospholipid synthesis, 90B, 269 Phosphoproteins, 91B, 125 Phosphorylation, 90B, 215 Phosphorylation site, 91B, 717 Phosphotyrosine, 90B, 173 Phosphovitin, 89B, 399, 475 Photobehavior, 91C, 145 Photobiology, 91C, 193 Photoperiod, 90B, 809
Peroxisomal enzymes, 90B, 757 Petrel, 91A, 415 Petromyzon marinus, 91A, 701 PFK, 90B, 453; 91B, 315 pH, 89C, 311; 90A, 405; 91C, 333, 449, 499 pH changes, 89C, 377 pH-dependence, 91A, 659 pH regulation, 90A, 551 Phaeodactylum tricornutum, 91C, 409 Phaseolin, 89B, 419 Phenol, 89C, 377; 91C, 413	kinase, 90B, 125 Phospholipid fatty acid, 91B, 593 Phospholipid synthesis, 90B, 269 Phosphoproteins, 91B, 125 Phosphorylation, 90B, 215 Phosphorylation site, 91B, 717 Phosphotyrosine, 90B, 173 Phosphovitin, 89B, 399, 475 Photobehavior, 91C, 145 Photobiology, 91C, 193 Photoperiod, 90B, 809 Photophores, 89C, 159
Petroxisomal enzymes, 90B, 757 Petrel, 91A, 415 Petromyzon marinus, 91A, 701 PFK, 90B, 453; 91B, 315 pH, 89C, 311; 90A, 405; 91C, 333, 449, 499 pH changes, 89C, 377 pH-dependence, 91A, 659 pH regulation, 90A, 551 Phaeodactylum tricornutum, 91C, 409 Phaseolin, 89B, 419 Phenol, 89C, 377; 91C, 413 Phenothrin, 89C, 389	kinase, 90B, 125 Phospholipid fatty acid, 91B, 593 Phospholipid synthesis, 90B, 269 Phosphoproteins, 91B, 125 Phosphorylation, 90B, 215 Phosphorylation site, 91B, 717 Phosphotyrosine, 90B, 173 Phosphovitin, 89B, 399, 475 Photobehavior, 91C, 145 Photobiology, 91C, 193 Photoperiod, 90B, 809 Photophores, 89C, 159 Photoreceptore membranes, 91C, 247
Petroxisomal enzymes, 90B, 757 Petrel, 91A, 415 Petromyzon marinus, 91A, 701 PFK, 90B, 453; 91B, 315 pH, 89C, 311; 90A, 405; 91C, 333, 449, 499 pH changes, 89C, 377 pH-dependence, 91A, 659 pH regulation, 90A, 551 Phaeodactylum tricornutum, 91C, 409 Phaseolin, 89B, 419 Phenol, 89C, 377; 91C, 413 Phenothrin, 89C, 389 Phentolamine, 89C, 113; 91A, 807	kinase, 90B, 125 Phospholipid fatty acid, 91B, 593 Phospholipid synthesis, 90B, 269 Phosphoproteins, 91B, 125 Phosphorylation, 90B, 215 Phosphorylation site, 91B, 717 Phosphotyrosine, 90B, 173 Phosphovitin, 89B, 399, 475 Photobehavior, 91C, 145 Photobiology, 91C, 193 Photoperiod, 90B, 809 Photophores, 89C, 159 Photoreceptore membranes, 91C, 247 Phyllotis darwini, 91A, 711
Petroxisomal enzymes, 90B, 757 Petrel, 91A, 415 Petromyzon marinus, 91A, 701 PFK, 90B, 453; 91B, 315 pH, 89C, 311; 90A, 405; 91C, 333, 449, 499 pH changes, 89C, 377 pH-dependence, 91A, 659 pH regulation, 90A, 551 Phaeodactylum tricornutum, 91C, 409 Phaseolin, 89B, 419 Phenol, 89C, 377; 91C, 413 Phenothrin, 89C, 389 Phentolamine, 89C, 113; 91A, 807 Phenylephrine, 90C, 367	kinase, 90B, 125 Phospholipid fatty acid, 91B, 593 Phospholipid synthesis, 90B, 269 Phosphoproteins, 91B, 125 Phosphorylation, 90B, 215 Phosphorylation site, 91B, 717 Phosphotyrosine, 90B, 173 Phosphovitin, 89B, 399, 475 Photobehavior, 91C, 145 Photobehavior, 91C, 145 Photophores, 89C, 159 Photoreceptore membranes, 91C, 247 Phyllotis darwini, 91A, 711 Physa fontinalis, 90C, 373

Phytosterols, 91B, 51	543
PI3, 90A, 209	Polypeptide, 90C, 231; 91B, 45
Picrotoxin, 89C, 383	Polysaccharides, 90A, 563
Picrotoxinin, 91C, 365	Pomacea canaliculata, 89C, 237
Pieris brassicae, 89A, 19	Pomadasys commersonni, 90A, 63
Pigeon navigation, 91A, 87	Pomatomus saltatrix, 91A, 807
Pig intestine, 90A, 577	Porichthys notatus, 89A, 203
Pigment aggregation, 91A, 27	Portunus trituberculatus, 90B, 355
Pigmentary system, 89B, 715	Postnatal thermal physiology, 90A, 169
Pigment migration, 91C, 513	Potamonautes warreni, 91A, 299
Pigs, 91A, 463	Potassium, 90A, 121; 91A, 135
Pilummus hirtellus, 91C, 111	Potassium channel, 89A, 187; 90A, 297,
Pineal melatonin, 89A, 651; 91A, 535	681
Pituitary glycoprotein, 91B, 551	Potassium secretion, 90A, 673
Plankton, 90C, 335	Potorous tridactylus, 90A, 459
Plantarflexors, 91A, 347	PPI-PFK, 90B, 897
Plasma CA, 91A, 271	Prazosin, 90C, 95
Plamalogenation, 89B, 111	Pregnancy, 89C, 315
Plasminogen activators, 90B, 691	Pregnant ewes, 91B, 25
Plasmodium yoelii, 91B, 735	Preputial gland, 90A, 195
Platelets, 90A, 810; 90B, 307	Procaine, 90A, 834
Platichthys flesus, 90B, 401	Procambarus bouvieri, 90A, 435; 91B,
Plecoglossus altivelis, 89A, 65, 601	;345
91B, 657	Procambarus clarkii, 89B, 471; 89C,
Pleurogramma antarticum, 90B, 529	236, 311, 389; 90C, 351; 91A, 61, 529,
Pneumocystis carinii, 89B, 75	571; 91C, 259
Pneumostome rhythm, 89A, 579	Prochymosin, 89B, 385
Podaris sicula, 89B, 1	Proctolin, 89C, 109; 91C, 205
Poecilia reticulata, 89A, 261;	Productivity, 90B, 489
90A, 828	Progesterone, 89A, 361; 90A, 355, 413
Polecat, 91A, 469	Proline, 90A, 839
Polyamines, 90B, 885	Proopriomelanocortin, 91B, 365
Polychaetes, 91C, 265	Propionate, 90A, 329
Polydora ciliata, 91B, 197	Propionylcoenzyme A carboxylase, 89B,
Polyethylene glycol, 90A, 651	565
Polymorphonuclear leukocytes, 90A,	Propranolol, 89C, 337; 90C, 451; 91A,

371	Purine salvage pathway, 90B, 419
Propylthiouracil, 90A, 449	Purinoceptors, 90C, 113
Prostacyclin, 89A, 305	Putrescine, 90B, 885
Prostaglandins, 90C, 325	Pycnopodia helianthoides, 90B, 885
Prostatic 5 α-reductase, 89B, 21	Pygoscelis adelie, 91B, 511
Proteases, 89B, 381; 91B, 625	Pyloric caeca, 91A, 9
Protease inhibitor, 90B, 409	Pyrantel, 91C, 525
Proteinase, 89B, 419; 91B, 647	Pyrazine-binding protein, 90B, 1
Proteinase inhibitor, 91B, 497	Pyrearinus termitilluminans, 91B, 143
Protein, 91B, 187	Pyrethroids, 91C, 371
Protein content, 90A, 11	Pyridine nucleotides, 89C, 201
Protein degradation, 89A, 333	Pyridoxamine phosphate oxidase, 90B,
Protein depot, 89A, 7	731
Protein energy, 89A, 11	Pyrrolizidine, 90C, 429
Protein kinase, 90A, 681	Pyruvate kinase, 90B, 401
Protein pattern, 89B, 489	Python molurus, 90B, 243
Protein restriction, 91C, 483	
Protein synthesis, 89B, 329; 91A,	QNB, 90C, 245
765; 91B, 389	³ H-QNB, 89C, 87
Protein turnover, 89A, 433	Quail, 89C, 15; 90A, 99
Proteolysis, 90B, 691	
Protogonyaulax tamarensis, 91C, 159	Rabbits, 90A, 413; 91A, 21
Pseudemys scripta, 89C, 241; 91A,	Rabbit globin mRNA, 91B, 585
377	Raccoon dogs, 89A, 219
Pseudocentrotus depressus, 89B, 687	Radial neuromuscular system, 90C, 385
Pseudocholinesterase, 91B, 437	Rainbow trout (see also Salmo
Pseudogobio esocinus, 89A, 65	
rseudogobio esocinus, oak, os	gairdneri), 89C, 221; 90B, 375; 91A,
Pseudopluronectes americanus, 90C,	gairdneri), 89C, 221; 90B, 375; 91A, 253
Pseudopluronectes americanus, 90C,	253
Pseudopluronectes americanus, 90C, 263 PST, 89A, 37	253 Raja, 89C, 343, 349
Pseudopluronectes americanus, 90C, 263	253 Raja, 89C, 343, 349 Raja clavata, 89C, 101, 343, 349
Pseudopluronectes americanus, 90C, 263 PST, 89A, 37 PT ₃ , 90B, 103	253 <u>Raja</u> , 89C, 343, 349 <u>Raja clavata</u> , 89C, 101, 343, 349 <u>Raja micro-ocellata</u> , 89C, 343, 349
Pseudopluronectes americanus, 90C, 263 PST, 89A, 37 PT ₃ , 90B, 103 PUFA, 91B, 165	Raja, 89C, 343, 349 Raja clavata, 89C, 101, 343, 349 Raja micro-ocellata, 89C, 343, 349 Raja montagui, 89C, 343, 349
Pseudopluronectes americanus, 90C, 263 PST, 89A, 37 PT ₃ , 90B, 103 PUFA, 91B, 165 Puma concolor, 91B, 783	Raja, 89C, 343, 349 Raja clavata, 89C, 101, 343, 349 Raja micro-ocellata, 89C, 343, 349 Raja montagui, 89C, 343, 349 Rallus elegans, 91A, 671
Pseudopluronectes americanus, 90C, 263 PST, 89A, 37 PT ₃ , 90B, 103 PUFA, 91B, 165 Puma concolor, 91B, 783 Purine catabolism, 91C, 35	Raja, 89C, 343, 349 Raja clavata, 89C, 101, 343, 349 Raja micro-ocellata, 89C, 343, 349 Raja montagui, 89C, 343, 349 Rallus elegans, 91A, 671 Rallus longirostris, 91A, 539, 671

Rana cuneata, 90C, 21	Respiratory cycles, 89A, 637
Rana esculenta, 89B, 251, 715; 89C,	Respiratory pigments, 91A, 849
241; 90A, 471; 90B, 173, 397; 91A,	Respiratory quotient, 90A, 445
175; 91B, 193	Respiratory rate, 90B, 69
Rana nigromaculata, 90B, 103	Respiratory responses, 89A, 97
Rana pipiens, 89A, 295; 89C, 71, 77;	Resting ventilation, 89A, 387
91A, 53, 309, 693	Reticulocytes, 90A, 810; 91B, 33
Rana ridibunda, 89A, 347; 89B, 91,	Retinol, 89B, 279; 91A, 343
737, 743	Retzius nerve cells, 89A, 67, 187;
Rana sylvatica, 91A, 189	89C, 31; 91A, 405
Rana temporaria, 90A, 693; 90C, 459	Rhinichthys cataractae, 89C, 197
Rana tigrina, 89C, 147	Rhinobatos annulatus, 89A, 283
Rangia cuneata, 90C, 21; 91C, 575	Rhodamine, 91B, 123, 735
Rapana thomasiana, 90C, 73	Rhodeus amarus, 89B, 299
Raphicerus campestris, 91A, 509	Rhodnius prolixus, 90B, 433, 843
Rats, 90A, 449	Rhodopsin phosphatase, 89B, 285
Rat atrial natriuretic factor, 90A,	Rhynchotragus guentheri, 91A, 1
465	Rhynchotragus kirki, 89A, 567; 90A,
Rat parotid salivary gland, 90C, 397	121; 91A, 437
Rat parotid salivary gland, 90C, 397 Rattus norvegicus, 89A, 401	121; 91A, 437 Rhythmic contractions, 90C, 183
Rattus norvegicus, 89A, 401	Rhythmic contractions, 90C, 183
Rattus norvegicus, 89A, 401 Rattus sp. 89C, 337	Rhythmic contractions, 90C, 183 Riboflavin, 90B, 243
Rattus norvegicus, 89A, 401 Rattus sp. 89C, 337 RBC, 90A, 539; 91C, 301	Rhythmic contractions, 90C, 183 Riboflavin, 90B, 243 Ribosomes, 89B, 347
Rattus norvegicus, 89A, 401 Rattus sp. 89C, 337 RBC, 90A, 539; 91C, 301 Rectal adaptation, 91A, 367	Rhythmic contractions, 90C, 183 Riboflavin, 90B, 243 Ribosomes, 89B, 347 RNA, 91B, 149, 155, 383
Rattus norvegicus, 89A, 401 Rattus sp. 89C, 337 RBC, 90A, 539; 91C, 301 Rectal adaptation, 91A, 367 Rectal gland, 90A, 733	Rhythmic contractions, 90C, 183 Riboflavin, 90B, 243 Ribosomes, 89B, 347 RNA, 91B, 149, 155, 383 RNA polymerases, 89B, 647 RNA synthesis, 91A, 675; 91B, 477
Rattus norvegicus, 89A, 401 Rattus sp. 89C, 337 RBC, 90A, 539; 91C, 301 Rectal adaptation, 91A, 367 Rectal gland, 90A, 733 Red-cell fragilities, 91A, 241	Rhythmic contractions, 90C, 183 Riboflavin, 90B, 243 Ribosomes, 89B, 347 RNA, 91B, 149, 155, 383 RNA polymerases, 89B, 647 RNA synthesis, 91A, 675; 91B, 477
Rattus norvegicus, 89A, 401 Rattus sp. 89C, 337 RBC, 90A, 539; 91C, 301 Rectal adaptation, 91A, 367 Rectal gland, 90A, 733 Red-cell fragilities, 91A, 241 Red cell volume regulation, 90A, 533	Rhythmic contractions, 90C, 183 Riboflavin, 90B, 243 Ribosomes, 89B, 347 RNA, 91B, 149, 155, 383 RNA polymerases, 89B, 647 RNA synthesis, 91A, 675; 91B, 477 Rock pigeon, 90A, 497
Rattus norvegicus, 89A, 401 Rattus sp. 89C, 337 RBC, 90A, 539; 91C, 301 Rectal adaptation, 91A, 367 Rectal gland, 90A, 733 Red-cell fragilities, 91A, 241 Red cell volume regulation, 90A, 533 Red mullet, 89B, 731	Rhythmic contractions, 90C, 183 Riboflavin, 90B, 243 Ribosomes, 89B, 347 RNA, 91B, 149, 155, 383 RNA polymerases, 89B, 647 RNA synthesis, 91A, 675; 91B, 477 Rock pigeon, 90A, 497 Rotifer neuropharmacology, 90C, 367
Rattus norvegicus, 89A, 401 Rattus sp. 89C, 337 RBC, 90A, 539; 91C, 301 Rectal adaptation, 91A, 367 Rectal gland, 90A, 733 Red-cell fragilities, 91A, 241 Red cell volume regulation, 90A, 533 Red mullet, 89B, 731 Renal collecting duct, 90A, 701	Rhythmic contractions, 90C, 183 Riboflavin, 90B, 243 Ribosomes, 89B, 347 RNA, 91B, 149, 155, 383 RNA polymerases, 89B, 647 RNA synthesis, 91A, 675; 91B, 477 Rock pigeon, 90A, 497 Rotifer neuropharmacology, 90C, 367 Rousettus aegyptiacus, 90A, 117
Rattus norvegicus, 89A, 401 Rattus sp. 89C, 337 RBC, 90A, 539; 91C, 301 Rectal adaptation, 91A, 367 Rectal gland, 90A, 733 Red-cell fragilities, 91A, 241 Red cell volume regulation, 90A, 533 Red mullet, 89B, 731 Renal collecting duct, 90A, 701 Renal excretion, 90A, 121; 91A, 437	Rhythmic contractions, 90C, 183 Riboflavin, 90B, 243 Ribosomes, 89B, 347 RNA, 91B, 149, 155, 383 RNA polymerases, 89B, 647 RNA synthesis, 91A, 675; 91B, 477 Rock pigeon, 90A, 497 Rotifer neuropharmacology, 90C, 367 Rousettus aegyptiacus, 90A, 117 RQ, 91A, 679
Rattus norvegicus, 89A, 401 Rattus sp. 89C, 337 RBC, 90A, 539; 91C, 301 Rectal adaptation, 91A, 367 Rectal gland, 90A, 733 Red-cell fragilities, 91A, 241 Red cell volume regulation, 90A, 533 Red mullet, 89B, 731 Renal collecting duct, 90A, 701 Renal excretion, 90A, 121; 91A, 437 Renal function, 90A, 141, 465	Rhythmic contractions, 90C, 183 Riboflavin, 90B, 243 Ribosomes, 89B, 347 RNA, 91B, 149, 155, 383 RNA polymerases, 89B, 647 RNA synthesis, 91A, 675; 91B, 477 Rock pigeon, 90A, 497 Rotifer neuropharmacology, 90C, 367 Rousettus aegyptiacus, 90A, 117 RQ, 91A, 679 Ruditapes philippinarum, 89B, 51
Rattus norvegicus, 89A, 401 Rattus sp. 89C, 337 RBC, 90A, 539; 91C, 301 Rectal adaptation, 91A, 367 Rectal gland, 90A, 733 Red-cell fragilities, 91A, 241 Red cell volume regulation, 90A, 533 Red mullet, 89B, 731 Renal collecting duct, 90A, 701 Renal excretion, 90A, 121; 91A, 437 Renal function, 90A, 141, 465 Reproduction, 90A, 497; 90C, 341	Rhythmic contractions, 90C, 183 Riboflavin, 90B, 243 Ribosomes, 89B, 347 RNA, 91B, 149, 155, 383 RNA polymerases, 89B, 647 RNA synthesis, 91A, 675; 91B, 477 Rock pigeon, 90A, 497 Rotifer neuropharmacology, 90C, 367 Rousettus aegyptiacus, 90A, 117 RQ, 91A, 679 Ruditapes philippinarum, 89B, 51 Ruminant forestomachs, 90A, 569
Rattus norvegicus, 89A, 401 Rattus sp. 89C, 337 RBC, 90A, 539; 91C, 301 Rectal adaptation, 91A, 367 Rectal gland, 90A, 733 Red-cell fragilities, 91A, 241 Red cell volume regulation, 90A, 533 Red mullet, 89B, 731 Renal collecting duct, 90A, 701 Renal excretion, 90A, 121; 91A, 437 Renal function, 90A, 141, 465 Reproductive cycle, 90B, 317	Rhythmic contractions, 90C, 183 Riboflavin, 90B, 243 Ribosomes, 89B, 347 RNA, 91B, 149, 155, 383 RNA polymerases, 89B, 647 RNA synthesis, 91A, 675; 91B, 477 Rock pigeon, 90A, 497 Rotifer neuropharmacology, 90C, 367 Rousettus aegyptiacus, 90A, 117 RQ, 91A, 679 Ruditapes philippinarum, 89B, 51 Ruminant forestomachs, 90A, 569 Russell's viper venom, 91C, 51
Rattus norvegicus, 89A, 401 Rattus sp. 89C, 337 RBC, 90A, 539; 91C, 301 Rectal adaptation, 91A, 367 Rectal gland, 90A, 733 Red-cell fragilities, 91A, 241 Red cell volume regulation, 90A, 533 Red mullet, 89B, 731 Renal collecting duct, 90A, 701 Renal excretion, 90A, 121; 91A, 437 Renal function, 90A, 141, 465 Reproductive cycle, 90B, 317 Reptiles, 90B, 243	Rhythmic contractions, 90C, 183 Riboflavin, 90B, 243 Ribosomes, 89B, 347 RNA, 91B, 149, 155, 383 RNA polymerases, 89B, 647 RNA synthesis, 91A, 675; 91B, 477 Rock pigeon, 90A, 497 Rotifer neuropharmacology, 90C, 367 Rousettus aegyptiacus, 90A, 117 RQ, 91A, 679 Ruditapes philippinarum, 89B, 51 Ruminant forestomachs, 90A, 569 Russell's viper venom, 91C, 51 Ruthenium red, 91B, 139

Saccostomus campestris, 91A, 123	Scomber japonicus, 89B, 147
Sacculina carcini, 91A, 849	Scrotal temperature, 89A, 323
Sagitta gazellae, 90B, 467	SD rats, 89C, 333
Sagittoria sagittifolia, 91B, 497	Sea anemone toxins, 90C, 351
Saline, 89C, 389	Seal milk, 90B, 447
Saline imbibition, 90A, 93	Seasonal energetics, 90A, 441
Salinity, 89A, 487; 90A, 31; 90B,	Seasonality, 90B, 461
891; 91A, 105	Sea urchin embryos, 91B, 525
Salinity tolerance, 90A, 183	Secretin, 90A, 329
Salivary glands, 90B, 269	Secretion, 91B, 389
Salmo gairdneri, 89A, 25, 495, 535;	Sedimentation, 90B, 475
89B, 329, 399, 475, 525, 539; 89C,	Selenium, 91C, 559
57, 93, 165, 221; 90A, 828; 90B,	Semen, 90A, 387
109, 375, 891; 91A, 9, 253, 271,	Semicarbazide, 89C, 257
721; 91B, 557, 563; 91C, 413, 431,	Seminal plasma, 90A, 49
585	Senecionine, 90C, 429
Salmo salar, 91A, 79	Sepia officinalis, 91A, 581
Salmo trutta, 89B, 475; 91C, 449	Sepioteuthis australis, 89B, 285
Salmonid fishes, 89B, 475	Sericornis frontalis, 89A, 79
Salt excretion, 91A, 671	Serine proteinase, 91B, 647
Salvelinus fontinalis, 89A, 615;	Serotonin (also see 5HT), 89C, 57,
89B, 475; 91A, 371; 91B, 69	173, 233; 91A, 613; 91C, 21, 251, 259
Saponins, 90B, 141	Serum enzymes, 89A, 531
Sarcolemma permeability, 90C, 459	Serum proteins, 90B, 751
Sarcophaga bullata, 90A, 253	Serum protein inhibitors, 91B, 625
Sarcophytoxide, 90C, 155	Sesterterpenes, 89B, 275
Sarcoplasmic reticulum, 91B, 7	Setonix brachyurus, 89A, 559
Sarcosine, 91B, 213	Sex hormone, 90B, 187
Satellite DNA, 91B, 639	Sexual maturity, 90A, 409
Scapharca inaequivalvis, 89B, 183	SGT, 90B, 773
SCFA, 91A, 659	Shearwater, 91A, 415
Schistocerca gregaria, 89B, 577;	Sheep (also see Ovies), 89C, 225; 90A
90A, 643	229
Schistosoma, 90A, 651	Shell thickening, 91A, 645
	bilett cittementing, still, etc
Schistosoma mansoni, 90A, 453, 651;	Short circuit current, 91A, 71, 487

Sialoglycopeptides, 89B, 309	Spisula sachalinensis, 89A, 1
Signal systems, 90C, 287	Spleen, 89A, 65
Silkworms, 91B, 625	Spodoptera eridania, 90C, 423; 91C,
Sinus arrythmia, 91A, 431	469
Sitosterol, 91B, 51	Spodoptera exempta, 91B, 315
Skate, 89C, 101	Sponge cells, 91B, 125
Skeletal muscle, 90B, 739; 91C, 395	Spongilla lacustris, 91B, 237
Skin mucus, 91A, 101	Squalus acanthias, 89B, 671; 90A, 733
Skull lipid, 91A, 97	Squid gill, 90B, 341
Slow synaptic responses, 91C, 165	Squilla mantis, 90C, 413
Smooth muscle, 91C, 311	Squirrel, 91A, 179
Snail neurons, 91C, 337	Startle response, 89A, 365
SOD, 89B, 521; 90C, 423	Starvation, 89B, 719; 90A, 491
Sodium (see also Na ⁺), 91A, 53	Stenonema femoratum, 90A, 405
Sodium channels, 90C, 351	Steroids, 89A, 595; 91B, 237
Sodium contractures, 91A, 225	Sterol, 89B, 39, 209
Sodium cotransport, 90A, 721	Stomach epithelium, 91A, 235
Sodium exchange, 90A, 391	Stomatogastric ganglion, 91C, 115
Sodium-free contractures, 89C, 71, 7	7Streptozotocin-diabetic rat, 90B, 439
Sodium monofluoroacetate, 91C, 343	Stress, 89A, 547; 89B, 55; 91A, 599
Sodium pump, 91A, 693	Stress in cattle, 89A, 231
Solea solea, 90B, 379	Stress proteins, 89B, 43
Somatomedins, 91B, 229	Strongylocentrotus intermedius, 89B,
Somatostatin, 89A, 237; 90A, 834	9; 89C, 185
Sorbin, 90A, 818	Strongylocentrotus purpuratus, 89B,
Sorbitol, 90A, 557	687
Space flight, 91A, 425	Struthio camelus, 89A, 251
Spawning, 89A, 7	Strychnine, 89C, 383
Spectral sensitivity, 90A, 147; 91A,	Succinate, 90C, 79
61, 529	Suckling rats, 91A, 33
Spectrin, 91B, 617	Sucrose gap, 89A, 1; 90C, 207
Speract derivatives, 89B, 687	Sugar and amino acid transport, 90A,
Sperm activators, 89B, 687; 90C, 305	627
Spermidine, 90B, 885	Sula capensis, 91A, 727
Spermine, 90B, 885	Sulfate, 90A, 471, 749

Spheniscus demersus, 91A, 727 Sulphate conjugation, 91C, 465

Sulphate transport, 90A,709 Tenebrio molitor, 89B, 233; 90B, 29, Sulpiride, 89C, 121 329; 91A, 333 Suncus murinus, 90B, 773; 91C, 613 Tenebrio obscurus, 91A, 675 Superoxide, 90C, 21 Terpenes, 89B, 221 Superoxide dismutase, 89B, 521; 90C, Testicotoxic, 89C, 305 423 Testosterone, 90A, 449; 91A, 789; 91C, Surgeonfish, 91B, 437 Sus scrota, 89A, 401; 91B, 626, 717 Testudo gracilis, 89B, 715 Sympatho-adrenal activity, 91A, 697 Testudo graeca, 89B, 737, 743 Synapsin I, 91C, 535 Tetrachlorobiphenyl, 91C, 507 Synaptic connections, 91A, 405 Tetracycline, 91C, 437 Synaptic mechanisms, 91C, 115 Tetramethylarsonium, 90C, 313 Synaptic transmission, 91A, 557 Tfm, 90B, 221 Synaptosomes, 89C, 179; 90C, 61 Themisto gaudichaudii, 89B, 39 Syrian hamsters, 90C, 465 Theobromine, 91C, 443 Theophylline, 91C, 443 2,3,5-T, 90C, 65 Thermal acclimation, 89A, 425 T₃, 89A, 157, 401; 91A, 67 Thermogenesis, 90C, 445 Thermophilic response, 89A, 645 T₄, 90A, 355, 449 Tachykinin, 91C, 281 Thermoregulation, 89A, 705 Thermoregulatory circadian rhythms, T and B lymphocytes, 90A, 103 91A, 123 Tannins, 91A, 509 Thermoregulatory responses, 89A, 475 TAP, 90A, 315 Thornasterol A sulphate, 90B, 25 Taricha granulosa, 91A, 715 Taste receptor cells, 90A, 681 Thunnus thynnus, 89B, 147 Thymidine, 91B, 557 Taurine, 89A, 437; 90A, 79; 91B, 207 Thyone briareus, 90C, 113 Thyroid function, 90A, 41 Taurine transport, 91A, 33 T cells, 90A, 103 Thyroid hormones, 90A, 355 Tectus pyramis, 90C, 313 Thyroxine, 90A, 309, 379; 91A, 279, Tegenaria atrica, 91B, 258 327, 371, 693 Tick salivary glands, 91B, 117 Teleost immunity, 91A, 481 Tilapia nilotica, 90B, 131 Temperature, 89C, 113; 90A, 103, Tiliqua rugosa, 91C, 343 341; 91B, 515; 91C, 333 Tilt, 90A, 269 Temperature acclimation, 89A, 141

Temperature tolerance, 91A, 183

Time-keeping properties, 91A, 395

Tinca tinca, 91B, 697	Triglycerides, 89B, 227; 90B, 163
Tissue damage, 89A, 295	Triiodothyronine (also see T_3), 91A,
Toad feeding, 89A, 131	327
Toad skin, 90A, 709	Trimerotropis pallidipennis, 89A, 51
Todarodes pacificus, 90B, 795	Trimethylamine, 89A, 261
Tomocerus minor, 91A, 147	Trimethylamine oxide, 89A, 261; 91B,
Tonometry, 89A, 593	211
Torpedo marmorata, 90C, 281	€-N-trimethyllysine, 90B, 855
Tortoise, 90A, 41	Tris buffer, 90C, 263
Toxicosis, 89C, 315	Troponin T isoforms, 90B, 779
Toxic polypeptides, 89B, 153	Trout erythrocyte, 90A, 811
Toxins, 89B, 153; 89C, 207	Trout gills, 90A, 813
Trachosurus vulpecula, 89A, 559	Trypanosoma brucei, 89B, 679
Trachurus, 91B, 741	Trypanosoma cruzi, 90C, 1
Trachydosaurus rugosus, 90A, 41	Trypanosoma (schizotrypanum) cruzi,
Transepithel potential, 89A, 163;	91B, 707
90A, 315	Trypargine, 91C, 281
Transferrins, 89A, 559; 91B, 489,	Trypsin, 89A, 61; 90B, 375, 601; 91B,
541	677
Transketolase, 90B, 167	Tryptophan, 89C, 197
Transmembrane ionic currents, 89A,	TSH, 91A, 371
179	TTX, 89A, 456; 89C, 277, 349, 389;
Transport in cells and epithelia,	90C, 107
90A, 521	<u>Tubifex tubifex</u> , 89A, 541; 90B, 301
Trehalase, 91B, 751, 766	Tubulins, 90B, 593
Trehalose utilization, 91A, 653	Tubulin evolution, 90B, 655
Trematode parasites, 91C, 565	Tubulin sequences, 90B, 655
Triacylglycerols, 90B, 529, 875	Tunaxanthin, 90B, 131
Triatoma infestans, 90B, 235	Turkey, 91C, 607
Tributyltin, 90A, 812	Turkey egg shell, 90A, 421
Trichostrongylus colubriformis,	Turtle, 89C, 241
91C, 385	Tylorrhynchus heterochaetus, 90B, 301
Trichosurus vulpecula, 89B, 21, 221	Tyramine, 89C, 141; 90C, 123
Tridecene, 91B, 729	Tyrosine aminotransferase, 90B, 291
Tridentiger brevispinis, 90A, 109	Tyrosine metabolism, 89B, 317

Tridentiger obscurus, 90A, 109

Ubiquitin, 91B, 777	Vitellin, 90B, 861
<u>Umbra limi</u> , 89C, 395	Vitellogenin, 89B, 525, 557; 90A, 253;
Undecene, 91B, 729	90B, 227, 809; 91A, 175; 91B, 17
Unionicola, 91C, 193	Voltage clamp, 89A, 1, 179, 187
Urea, 91A, 153, 317	Volume-activated transport, 90A, 539
Ureotelic, 91A, 153	Volume regulation, 90A, 557
Uric acid, 91A, 587	Vomiting, 91A, 721
Uridine, 89A, 465	
Urinary nitrogen waste, 90A, 249	W-5, 91C, 535
Urolophus mucosus, 90C, 165	W-7, 91C, 535
Urolophus paucimaculatus, 90C, 165	Water deprivation, 90A, 225
Uterus, 91B, 517	Water economy, 91A, 711
	Water loss, 89A, 51
Vagal stimulation, 91A, 43	
Vagotomy, 90A, 611	Xanthine dehydrogenase, 89B, 263; 91C,
Vargula, 89A, 203	35
Vasa deferentia, 89C, 141; 90C, 183	Xenopus borealis, 91B, 489
Vasopressin, 89A, 651; 90A, 661,	Xenopus laevis, 89B, 719; 89C, 93; 90A
664, 824, 841; 91A, 739	491, 840; 91B, 489, 651, 657
Vasotocin, 91A, 739; 91C, 551	Xiphophorus maculatus, 91A, 27
Venoms, 89C, 229	
Venous blood pressures, 89A, 405	Yoldia eightsi, 90A, 511
Verapamil, 89C, 369	Yoldia limatula, 89B, 189
Veratridine, 91C, 349	Y organs, 91C, 111
Vertebrate ontogenesis, 89C, 355	
Vertebrate peptides in inverts, 90C,	Zacco temmincki, 90A, 147
290	Zeaxanthin, 90B, 131; 91B, 563
Vertebrate retina, 91C, 25	Zinc, 89C, 93; 90C, 69; 91B, 285, 473,
Vertical distribution, 90B, 521	589
Vespula wasp venom, 89C, 299	Zinc-binding ligand, 91B, 569
VIP, 89C, 349; 91B, 179	⁶⁵ Zn, 89C, 53
Vipera russelli, 91C, 51	
Vitamin, 90B, 131	
Vitamin B6, 90B, 731, 891	
Vitamin D metabolism, 91B, 511	

Vitamin K₃, 91A, 115